S/M No. : 3113907100

DAEWOO

Service Manual

Split System Air Conditioner

Model: DSB-070LH/DSB-071LH
DSB-091LH/DSB-092LH
DSB-121LH/DSB-122LH
DSB-123LH
DSB-182LH/LH-R
DSB-183LH-R
DSA-183LH-R
DSB-240LH-R
DSA-240LH-R

✔ Caution

: In this Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information,please refer to PPL(Parts Price List) in Service Information Center (http://svc.dwe.co.kr).

CE by Nemko

AIO64

DAEWOO ELECTRONICS CO., LTD.

Contents

CONTENTS

1. Specifications 2
2. Outline and Dimensions 11
3. Operation 20
4. Wiring Diagram 44
5. Refrigerant Cycle 50
6. Control Block Diagram 51
7. Trouble Shooting 53
8. Key Components of Electronic Circuit 87
9. Disassembly Instructions 90
   1) Indoor Unit 90
   2) Outdoor Unit 97
   3) Exploded Diagram (Indoor Unit) 100
   4) Exploded Diagram (Outdoor Unit) 116
   5) Control Box Assembly 124

1. SPECIFICATIONS

◆DSB-070LH/071LH

ITEM \ MODEL			DSB-070LH /071LH	
Function			Cooling & Heating	
Class			T	
Power			AC 220~ 240V/ 50Hz	
Capacity		W	2,051/2,051	
		Btu/h	7,000/7,000	
Dehumidification		l/h	0.89	
Electrical Data	Running Current	A	3.1/3.1	
	Power Input	W	740/720	
	Starting Current	A	18	
Compressor	Type		Rotary	
	Model		RBB075A011	
	Capacitor		25μF/370VAC	
Fan Motor			Indoor Unit	Outdoor Unit
	Type		Cross flow fan	Propeller fan
	Capacitor		1.0μF 400VAC	1.8μF 400V
	Motor Model Number		YDK-8-4B	YDK-30-6B/YDK-30-6B
Refrigerant (R-22)	Control		Capillary	
	Charge Q'ty	g	850	
Connection	Type		Flare	
	OD (Liquid/Gas)	in(mm)	1/4 (6.35)	3/8 (9.52)
Dimensions (W x H x D)		mm	750 x 245 x 174	654 x 549 x 256
Net Weight		kg	7.0	34

◆DSB-091LH/092LH

ITEM \ MODEL			DSB-091LH /092LH	
Function			Cooling & Heating	
Class			T	
Power			AC 220~240V/ 50Hz	
Capacity		W	2,637/2,637	
		Btu/h	9,000/9,000	
Dehumidification		l/h	1.15	
Electrical Data	Running Current	A	4.5/4.5	
	Power Input	W	1,000/1,000	
	Starting Current	A	24	
Compressor	Type		Rotary	
	Model		RBB100A011	
	Capacitor		30μF / 370VAC	
Fan Motor			Indoor Unit	Outdoor Unit
	Type		Cross flow fan	Propeller fan
	Capacitor		1.0μF 400VAC	1.8μF 400V
	Motor Model Number		YDK-8-4B	A9530BD010/YDK-30-6B
Refrigerant (R-22)	Control		Capillary	
	Charge Q'ty	g	800	
Connection	Type		Flare	
	OD (Liquid/Gas)	in(mm)	1/4 (6.35)	3/8 (9.52)
Dimensions (W x H x D)		mm	750 x 245 x 174	654 x 549 x 256
Net Weight		kg	7.0	34

◆DSB-121LH/122LH

ITEM \ MODEL			DSB-121LH/122LH	
Function			Cooling & Heating	
Class			T	
Power			AC 220~240V/ 50Hz	
Capacity		W	3,663/3,956	
		Btu/h	12,500/13,500	
Dehumidification		l/h	1.6	
Electrical Data	Running Current	A	7.0/6.5	
	Power Input	W	1,500/1,410	
	Starting Current	A	37	
Compressor	Type		Rotary	
	Model		RCB 150A001	
	Capacitor		35μF/ 370VAC	
Fan Motor	Division		Indoor Unit	Outdoor Unit
	Type		Cross flow fan	Propeller fan
	Capacitor		1.0μF 400VAC	3.5μF 400VAC
	Motor Model Number		YDK-8-4B/A	YDK-40-4B
Refrigerant (R-22)	Control		Capillary	
	Charge Q'ty	g	1,060	
Connection	Type		Flare	
	OD (Liquid/Gas)	in(mm)	1/4 (6.35)	1/2 (12.7)
Dimensions (W x H x D)		mm	925 x 285 x 194	654 x 549 x 256
Net Weight		kg	9.7	34

◆DSB-123LH

ITEM \ MODEL			DSB-123LH	
Function			Cooling & Heating	
Class			T	
Power			AC 220~240V/ 50Hz	
Capacity		W	3,517/3,810	
		Btu/h	12,000/13,000	
Dehumidification		l/h	1.28	
Electrical Data	Running Current	A	6.8/7.3	
	Power Input	W	1,500/1,550	
	Starting Current	A	37	
Compressor	Type		Rotary	
	Model		RCB 150A001	
	Capacitor		35μF/ 370VAC	
Fan Motor	Division		Indoor Unit	Outdoor Unit
	Type		Cross flow fan	Propeller fan
	Capacitor		1.5μF 400VAC	3.5μF 400VAC
	Motor Model Number		RP-13B	YDK-40-4B
Refrigerant (R-22)	Control		Capillary	
	Charge Q'ty	g	1,230	
Connection	Type		Flare	
	OD (Liquid/Gas)	in(mm)	1/4 (6.35)	3/8 (9.52)
Dimensions (W x H x D)		mm	815 x 285 x 195	654 x 549 x 256
Net Weight		kg	9.2	34

◆DSB-182LH

ITEM \ MODEL			DSB-182LH	
Function			Cooling & Heating	
Class			T1	
Power			AC 220~240V/ 50Hz	
Capacity		W	5,129/5,422	
		Btu/h	17,500/18,500	
Dehumidification		l/h	2.3	
Electrical Data	Running Current	A	9.65/10	
	Power Input	W	2,150/2,235	
	Starting Current	A	49	
Compressor	Type		Rotary	
	Model		SHW33TC4-U	
	Capacitor		50μF / 370VAC	
Fan Motor			Indoor Unit	Outdoor Unit
	Type		Cross flow fan	Propeller fan
	Capacitor		1.2μF 450VAC	3μF 400V
	Motor Model Number		IC-9425DWKC5C	YDK-50-6B
Refrigerant (R-22)	Control		Capillary	
	Charge Q'ty	g	1,480	
Connection	Type		Flare	
	OD (Liquid/Gas)	in(mm)	1/4 (6.35)	1/2 (12.7)
Dimensions (W x H x D)		mm	1035 x 322 x 205	800 x 615 x 320
Net Weight		kg	12.1	51.9

◆DSB-182LH-R/DSB-183LH-R

ITEM \ MODEL			DSB-182LH-R		DSB-183LH-R	
Function			Cooling & Heating			
Class			T1			
Power			AC 220~240V/ 50Hz			
Capacity		W	5,275/5,275		5,275/5,560	
		Btu/h	18,000/18,000		18,000/19,000	
Dehumidification		l/h	2.3			
Electrical Data	Running Current	A	9.2/9.5		9.5/9.0	
	Power Input	W	2,000/2,100		2,000/1,950	
	Starting Current	A	54			
Compressor	Type		Recipro			
	Model		SHW33TC4-U		AWG5524EXC	
	Capacitor		35μF / 370VAC			
Fan Motor			Indoor Unit		Outdoor Unit	
	Type		Cross flow fan		Propeller fan	
	Capacitor		1.2μF 450VAC		3μF 400V	
	Motor Model Number		IC-9425DWKC5C		YDK-50-6B	
Refrigerant (R-22)	Control		Capillary			
	Charge Q'ty	g	1,550		1,600	
Connection	Type		Flare			
	OD (Liquid/Gas)	in(mm)	1/4 (6.35)		1/2 (12.7)	
Dimensions (W x H x D)		mm	1035 x 322 x 205	800 x 615 x 320	1080 x 298 x 200	800 x 615 x 320
Net Weight		kg	12.1	63.5	14.7	63.5

◆DSA-183LH-R

ITEM \ MODEL			DSA-183LH-R	
Remark			JIS C9812	SAA385386
Function			Cooling & Heating	
Class			T1	
Power			AC 220V / 60Hz	
Capacity		W	5275.5/5422	4500/5400
		Btu/h	18,000/18,500	15354/18425
Dehumidification		l/h	2.3	
Electrical Data	Running Current	A	9.4/8.8	10.4/8.8
	Power Input	W	2,000/1,900	2,200/1,900
	Starting Current	A	52	52
Compressor	Type		Recipro	
	Model		AWG5519EXN	
	Capacitor		35μF / 400VAC	
Fan Motor			Indoor Unit	Outdoor Unit
	Type		Cross flow fan	Propeller fan
	Capacitor		2μF / 400VAC	4μF / 440VAC
	Motor Model Number		IC-9430DWKF7A	IC-1625DWCF6B
Refrigerant (R-22)	Control		Capillary	
	Charge Q'ty	g	1500	
Connection	Type		Flare	
	OD (Liquid/Gas)	in(mm)	1/4 (6.35)	1/2 (12.7)
Dimensions (W x H x D)		mm	1080 x 298 x 200	800 x 630 x 320
Net Weight		kg	14.7	63.5

◆DSB-240LH-R

ITEM \ MODEL			DSB-240LH-R	
Function			Cooling & Heating	
Class			T1	
Power			AC 220~240V/ 50Hz	
Capacity		W	7,034/7,034	
Dehumidification		Btu/h	24,000/24,000	
		l/h	2.67	
	Running Current	A	13.4 / 13.6	
Electrical Data	Power Input	W	2,450 / 2,500	
	Starting Current	A	83	
Compressor	Type		Recipro	
	Model		AWG5530EXC	
	Capacitor		45μF/ 400VAC	
Fan Motor	Division		Indoor Unit	Outdoor Unit
	Type		Cross flow fan	Propeller fan
	Capacitor		2μF 400VAC	5μF 400VAC
	Motor Model Number		IC-9430DWKF7A	OSME-806DERC
Refrigerant (R-22)	Control		Capillary	
	Charge Q'ty	g	2,050	
Connection	Type		Flare	
	OD (Liquid/Suction)	in(mm)	3/8 (9.52)	5/8 (15.9)
Dimensions (W x H x D)		mm	1080 x 298 x 200	872 x 675 x 325
Net Weight		kg	14.7	65

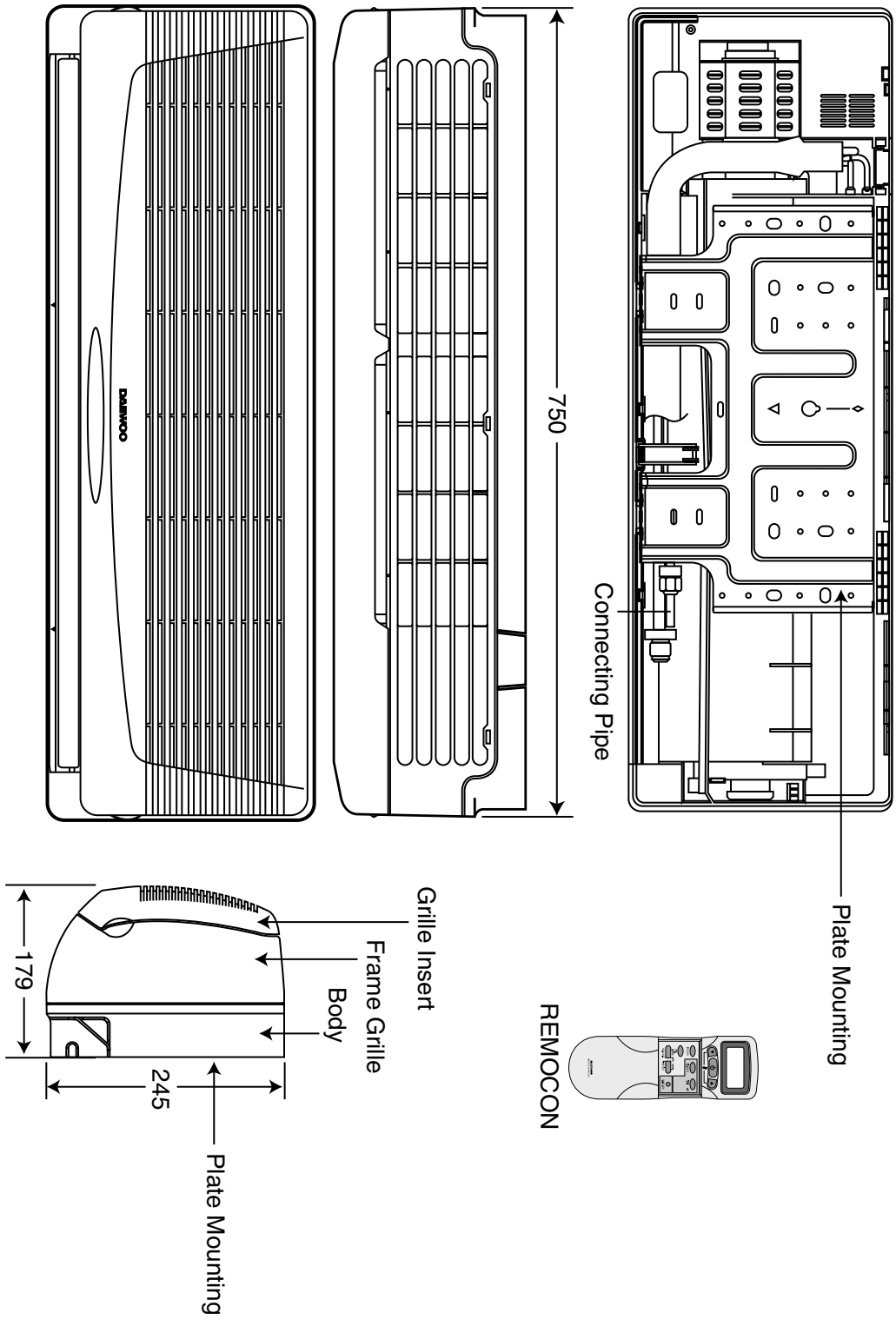
◆DSA-240LH-R

ITEM \ MODEL			DSA-240LH-R	
Remark			JIS C9812	SAA385386
Function			Cooling & Heating	
Class			T1	
Power			AC 220V / 60Hz	
Capacity		W	7,034/7,034	5,129
		Btu/h	24,000/24,000	17.5
Dehumidification		l/h	2.67	
Electrical Data	Running Current	A	11.5/11.8	13
	Power Input	W	2,500/2,500	2,800
	Starting Current	A	60	602
Compressor	Type		Recipro	
	Model		AWG5524EXN	
	Capacitor		35μF / 400VAC	
Fan Motor			Indoor Unit	Outdoor Unit
	Type		Cross flow fan	Propeller fan
	Capacitor		2μF / 400VAC	5μF / 400VAC
	Motor Model Number		IC-9430DWKF7A	OSME-986DERC
Refrigerant (R-22)	Control		Capillary	
	Charge Q'ty	g	2,100	
Connection	Type		Flare	
	OD (Liquid/Gas)	in(mm)	3/8 (9.52)	5/8 (15.9)
Dimensions (W x H x D)		mm	1080 x 298 x 200	875 x 675 x 325
Net Weight		kg	14.7	65

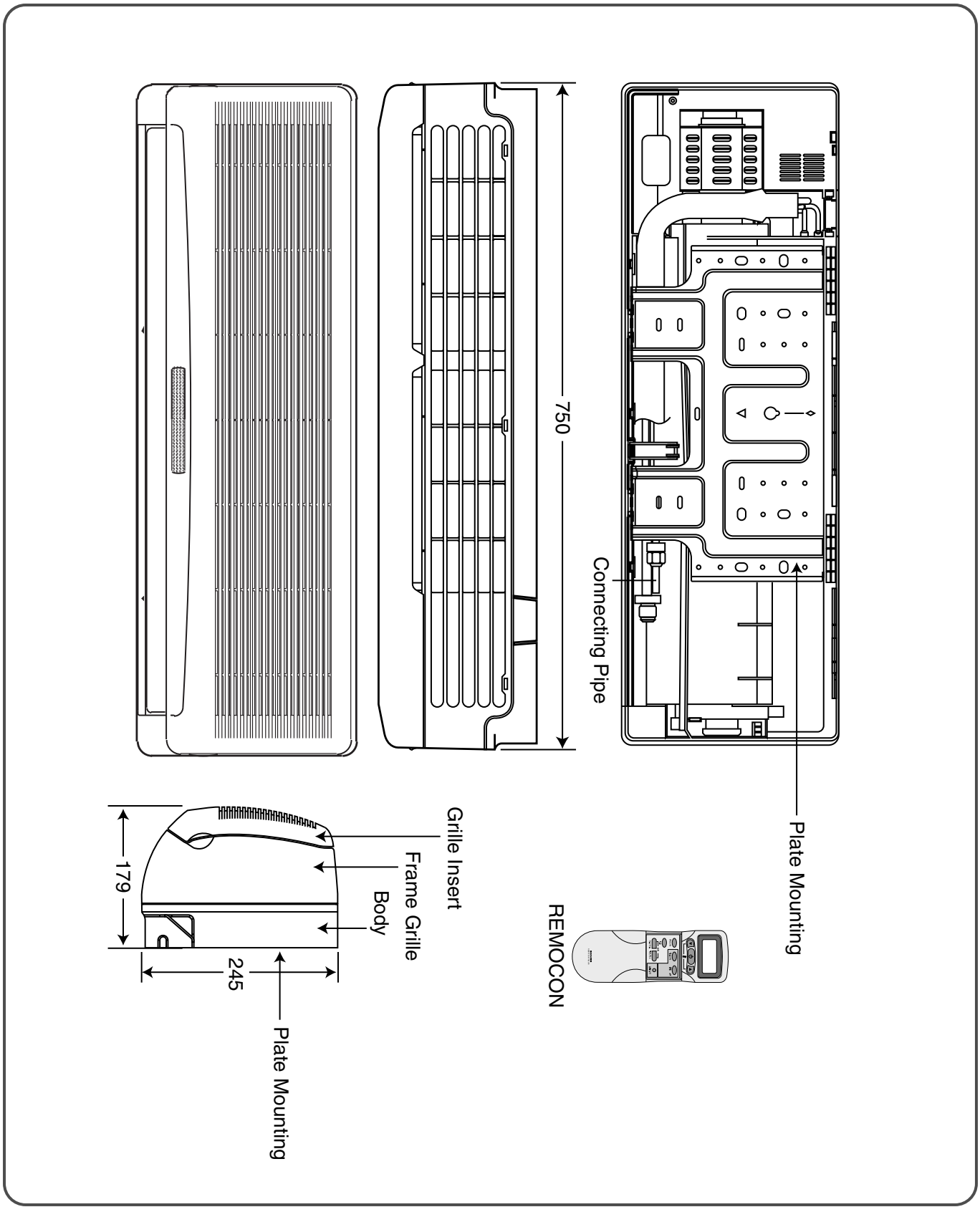
2. OUTLINE AND DIMENSIONS

1 INDOOR UNIT

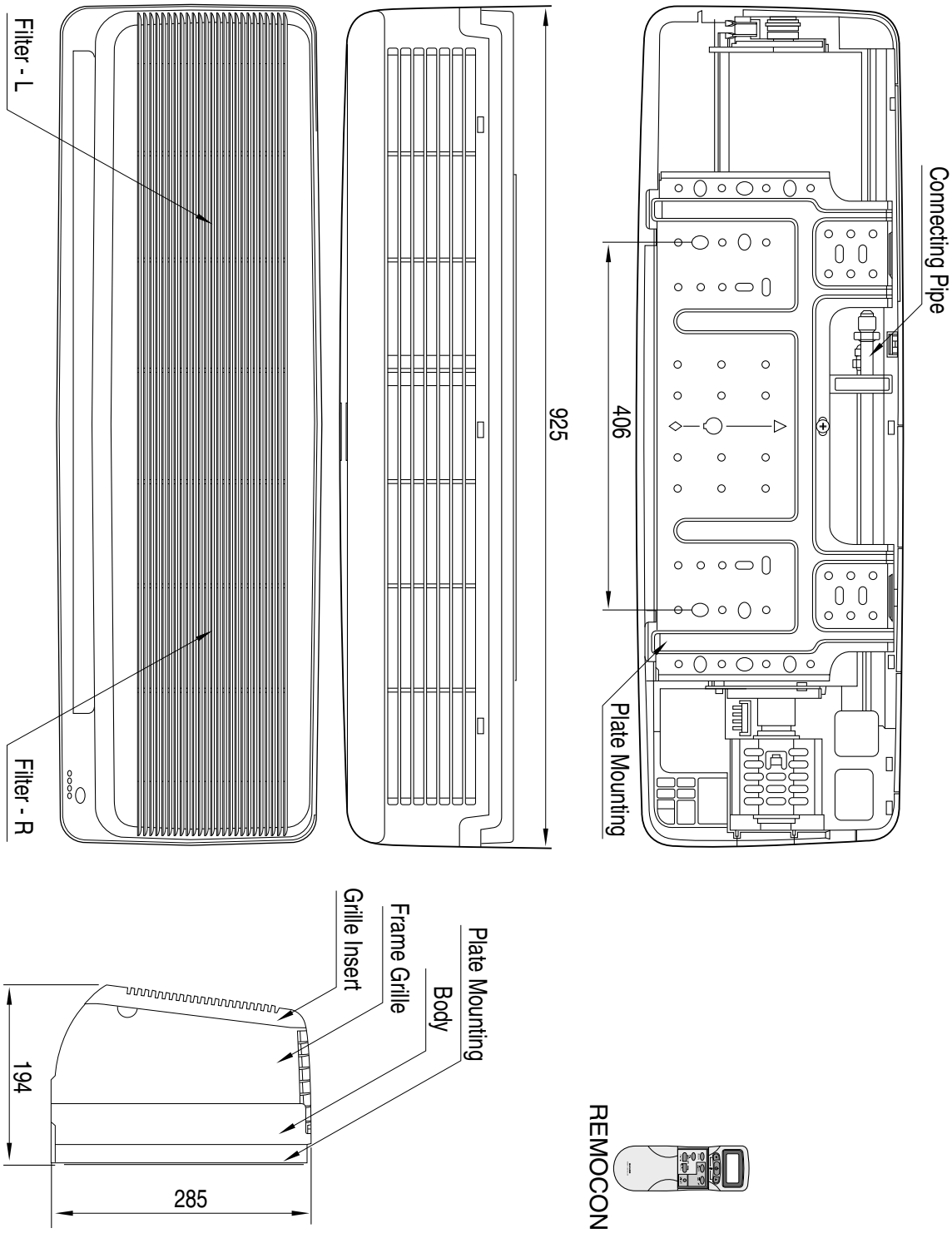
◆ **DSB-070LH/DSB-091LH**



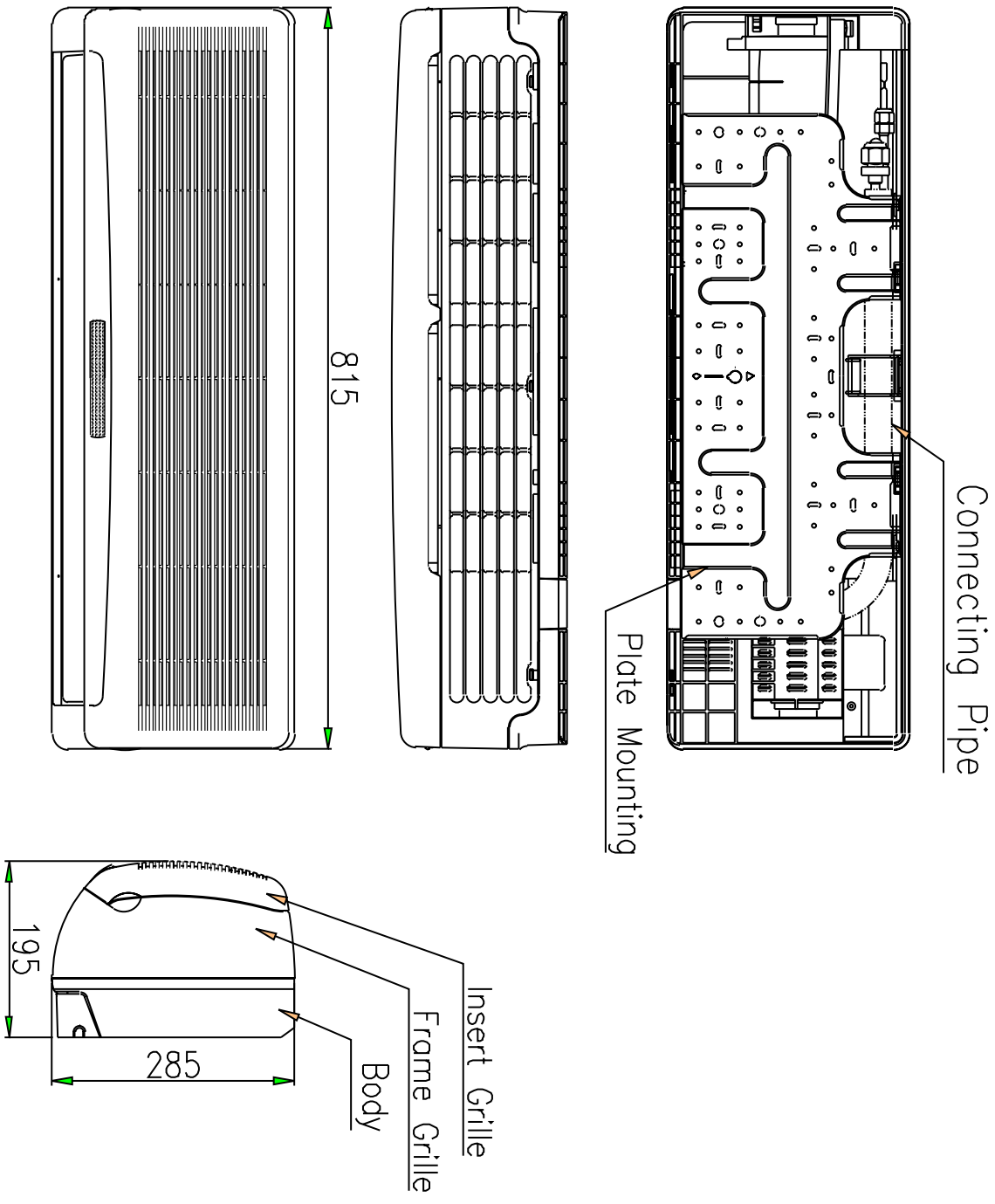
◆ DSB-071LH/DSB-092LH



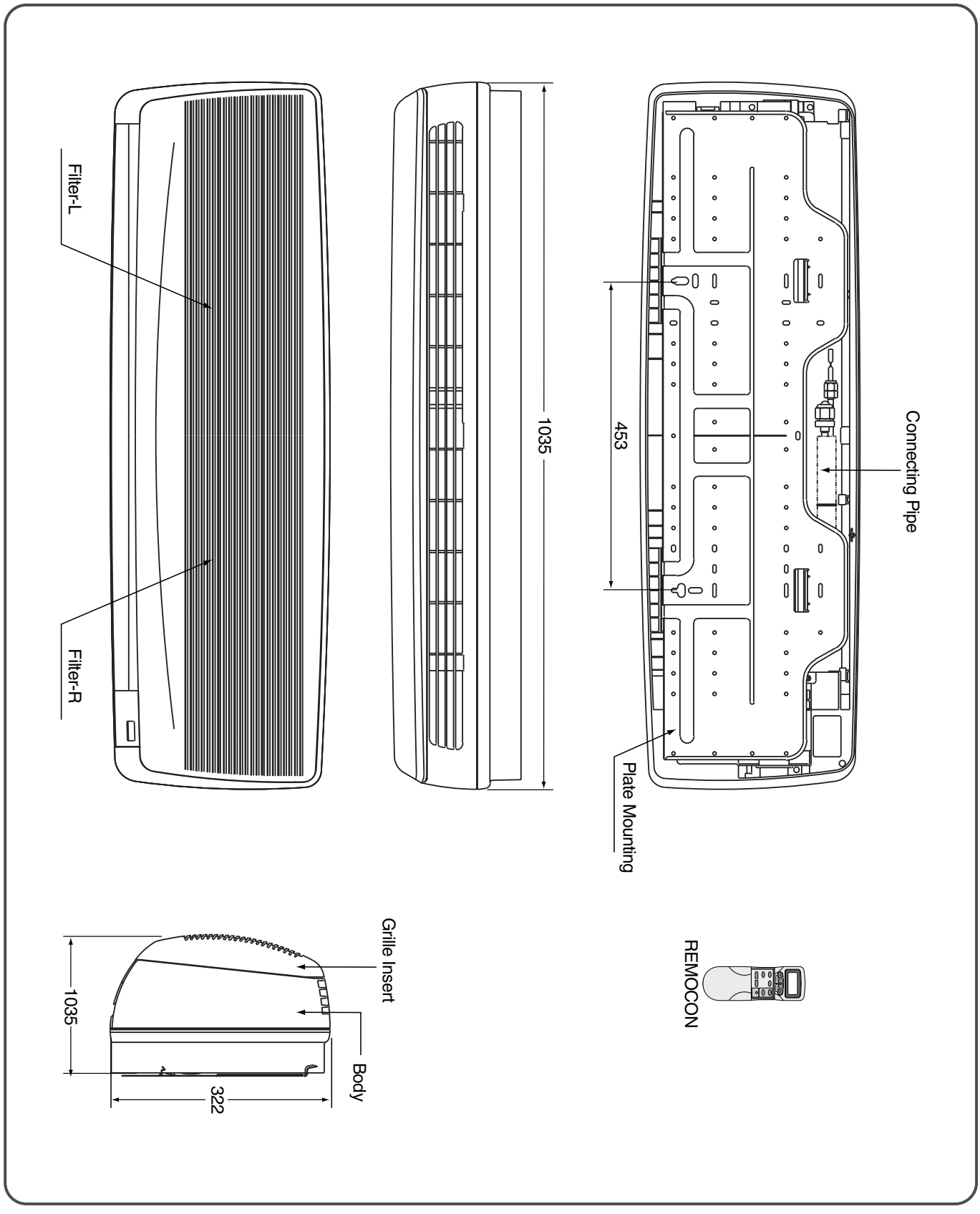
◆ DSB-121LH/122LH



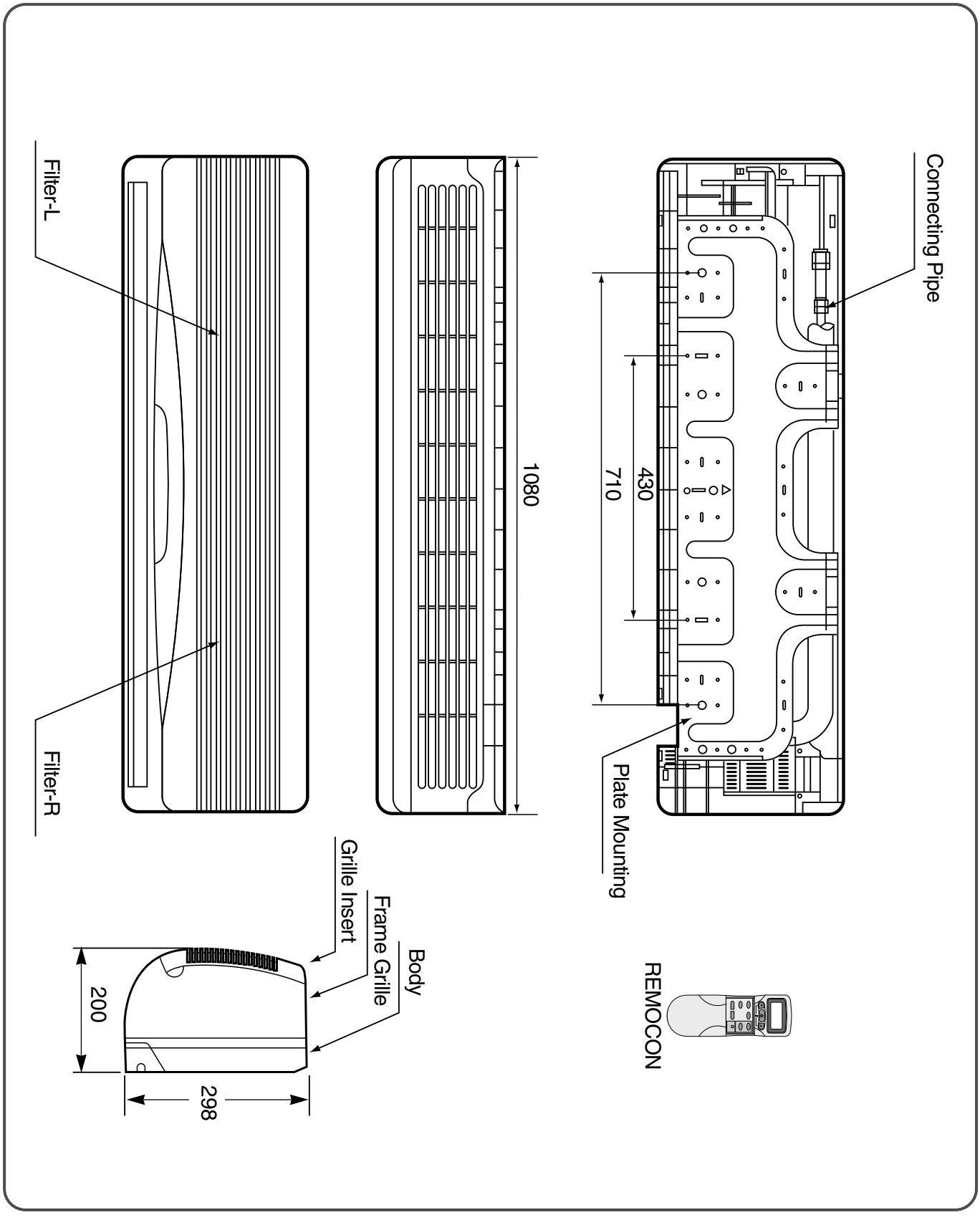
◆**DSB-123LH**


815
Connecting Pipe
Plate Mounting
195
285
Insert Grille
Frame Grille
Body

◆ DSB-182LH/LH-R

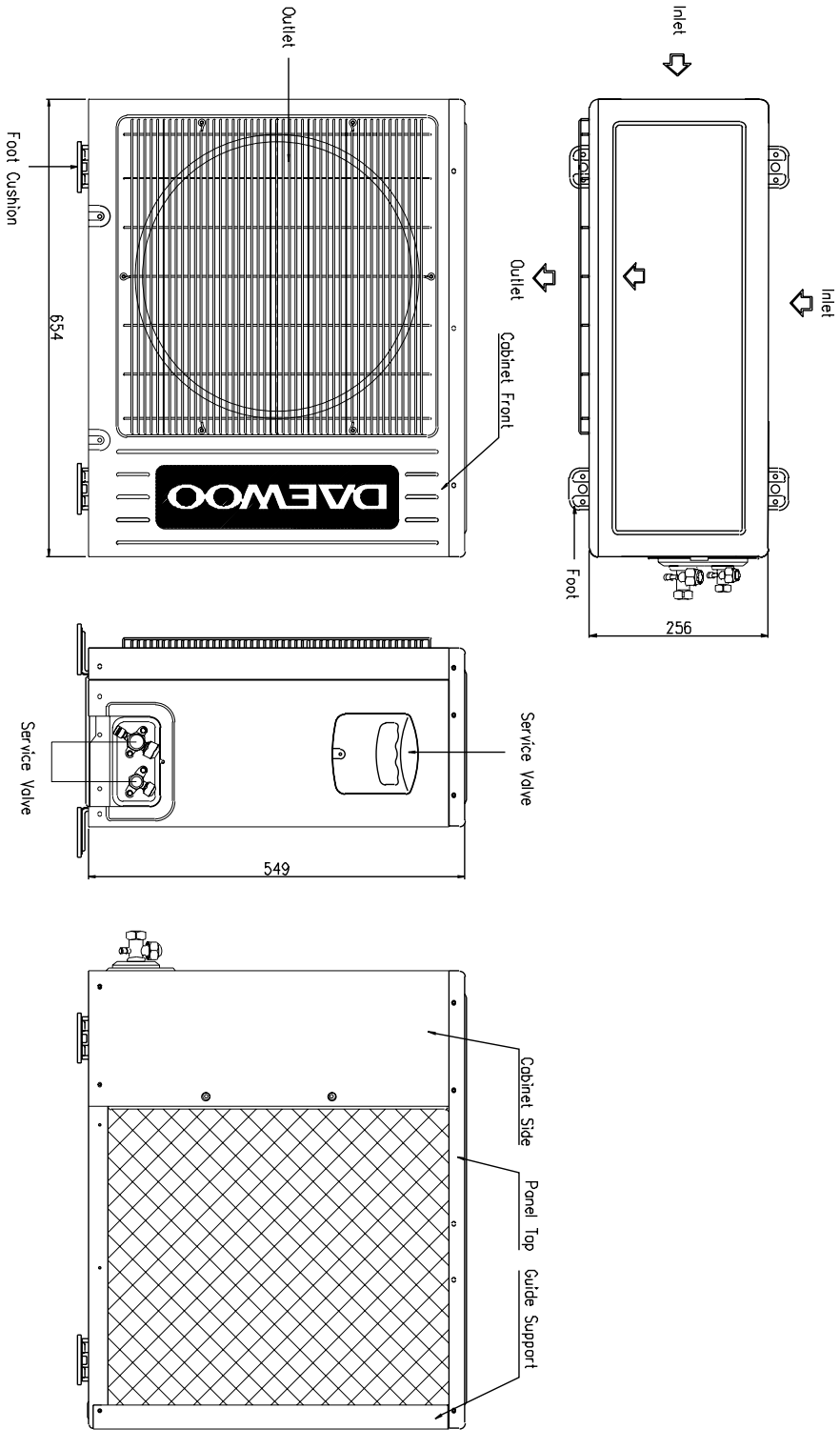


◆ DSB-183LH-R/DSA-183LH-R/DSB-240LH-R/DSA-240LH-R

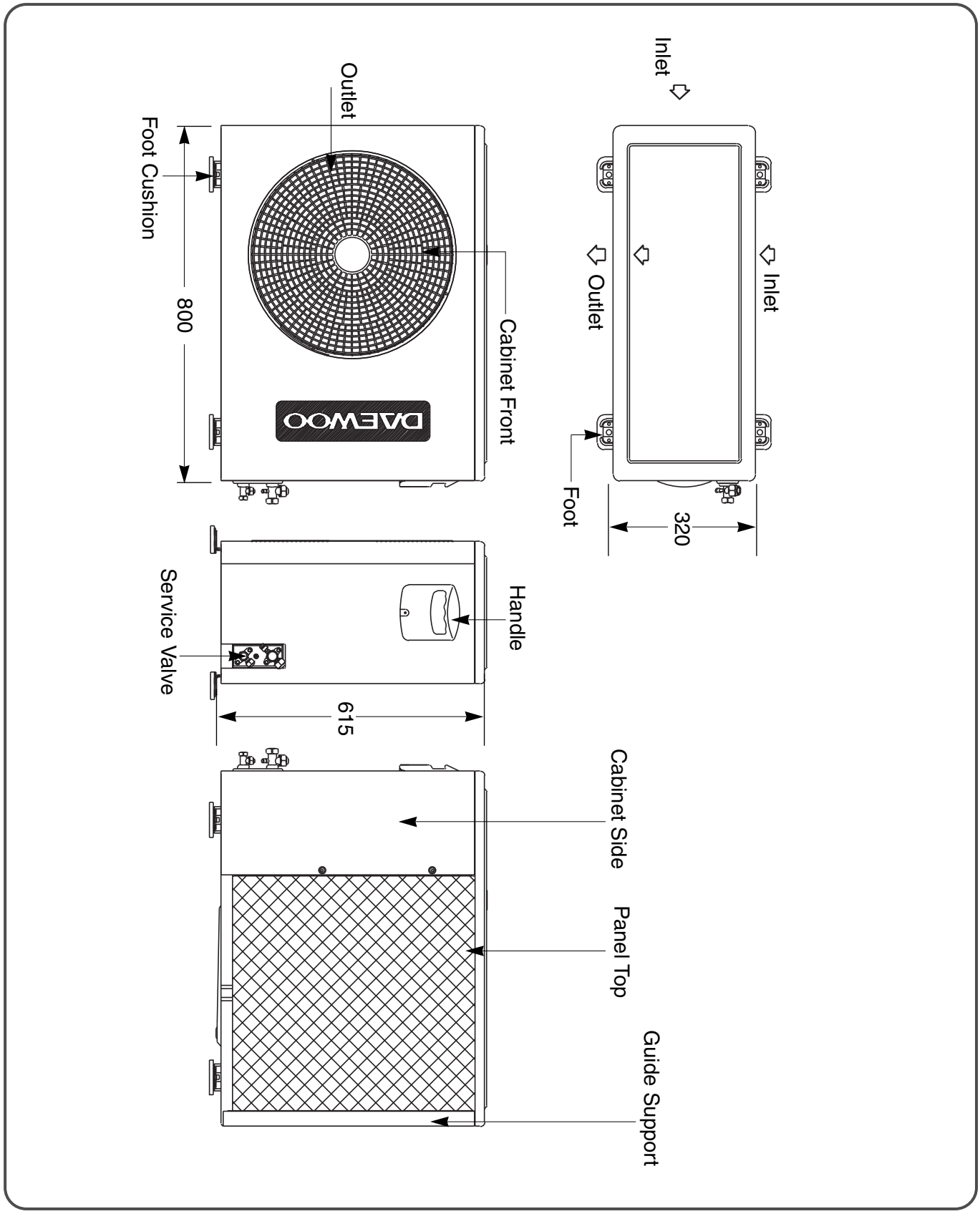


2 OUTDOOR UNIT

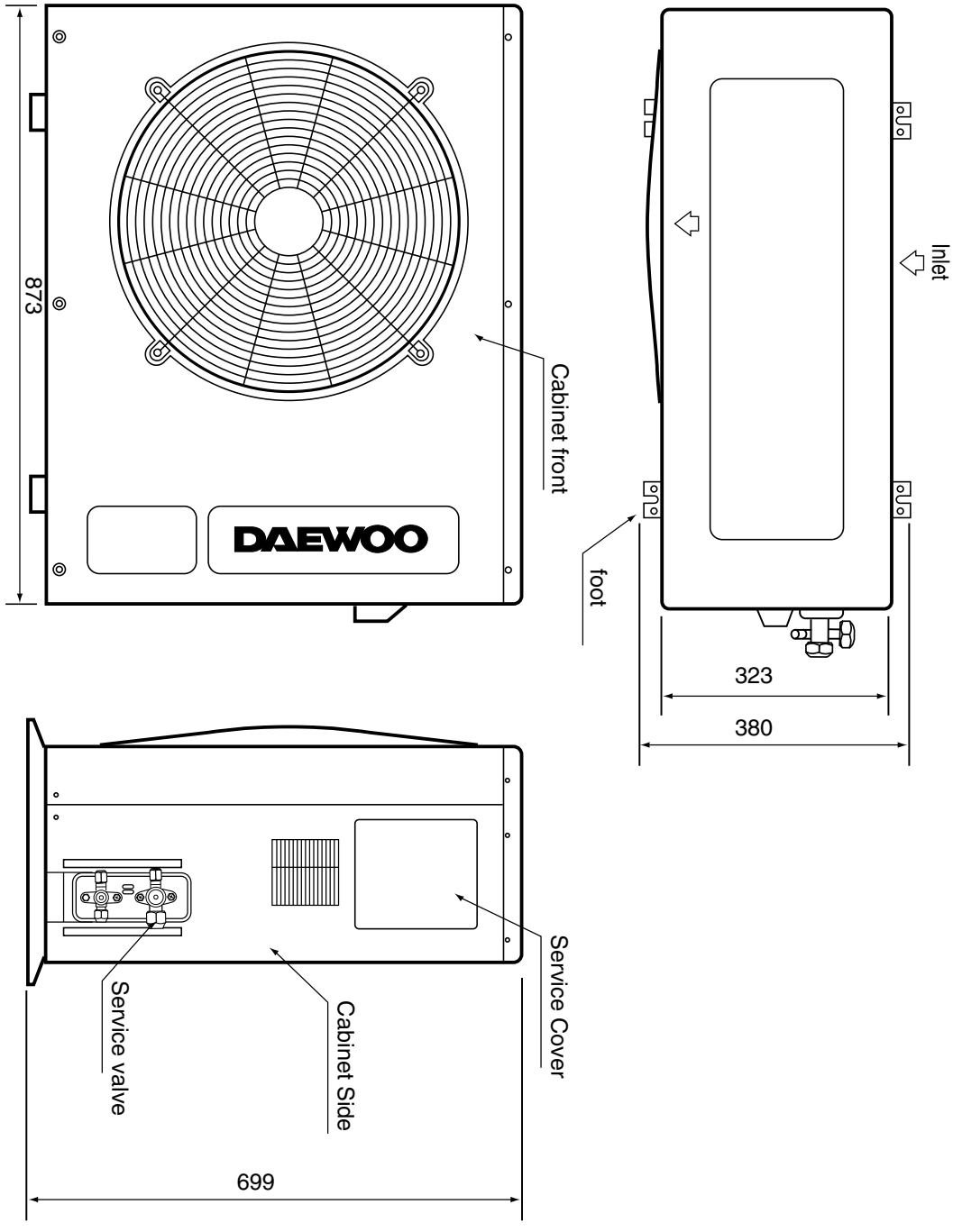
◆DSB-070LH/071LH/091LH/092LH/121LH/122LH/123LH



◆ DSB-182LH/LH-R/DSA-183LH-R/DSB-183LH-R



◆ DSB-240LH-R/DSA-240LH-R

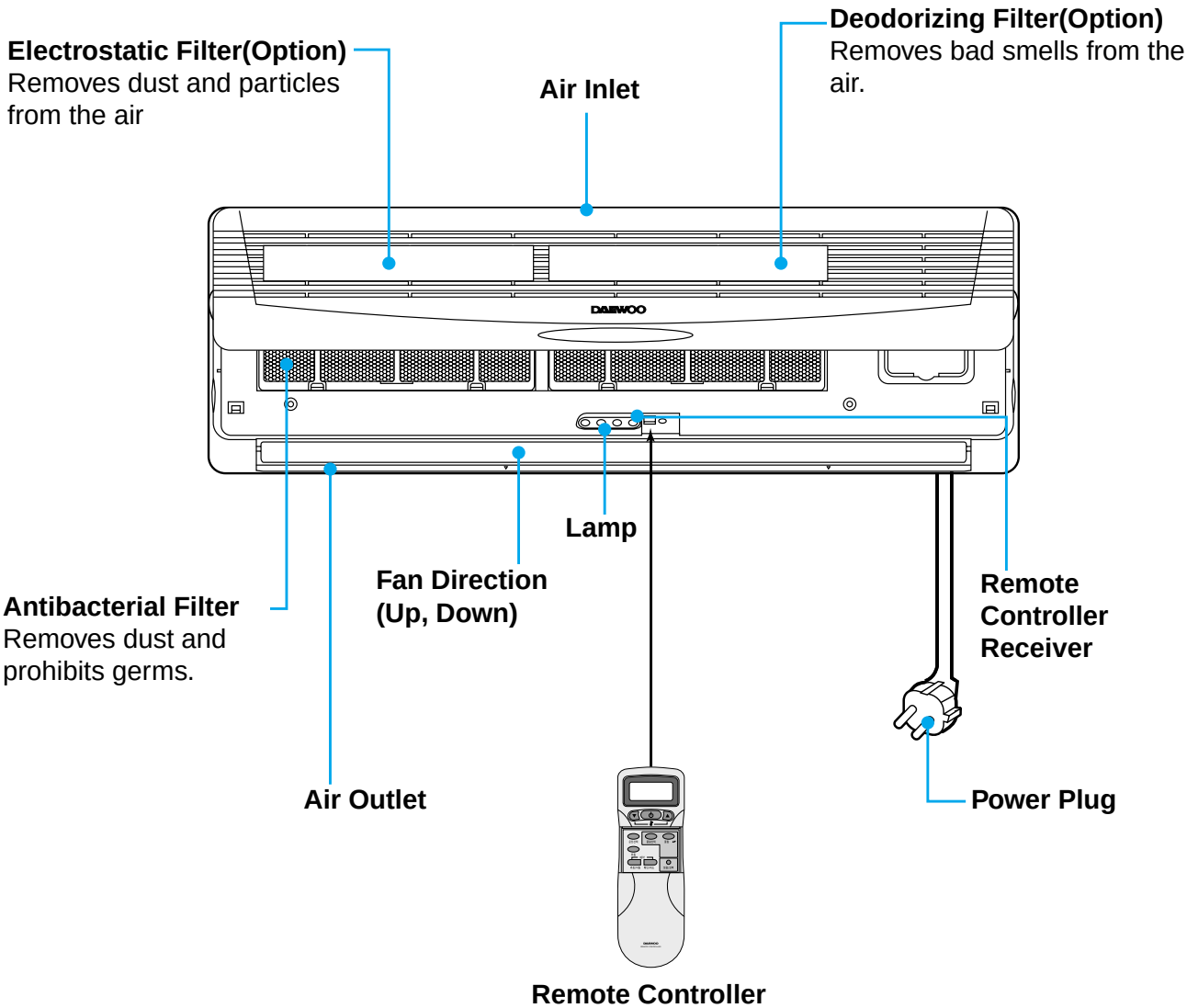


3. OPERATION

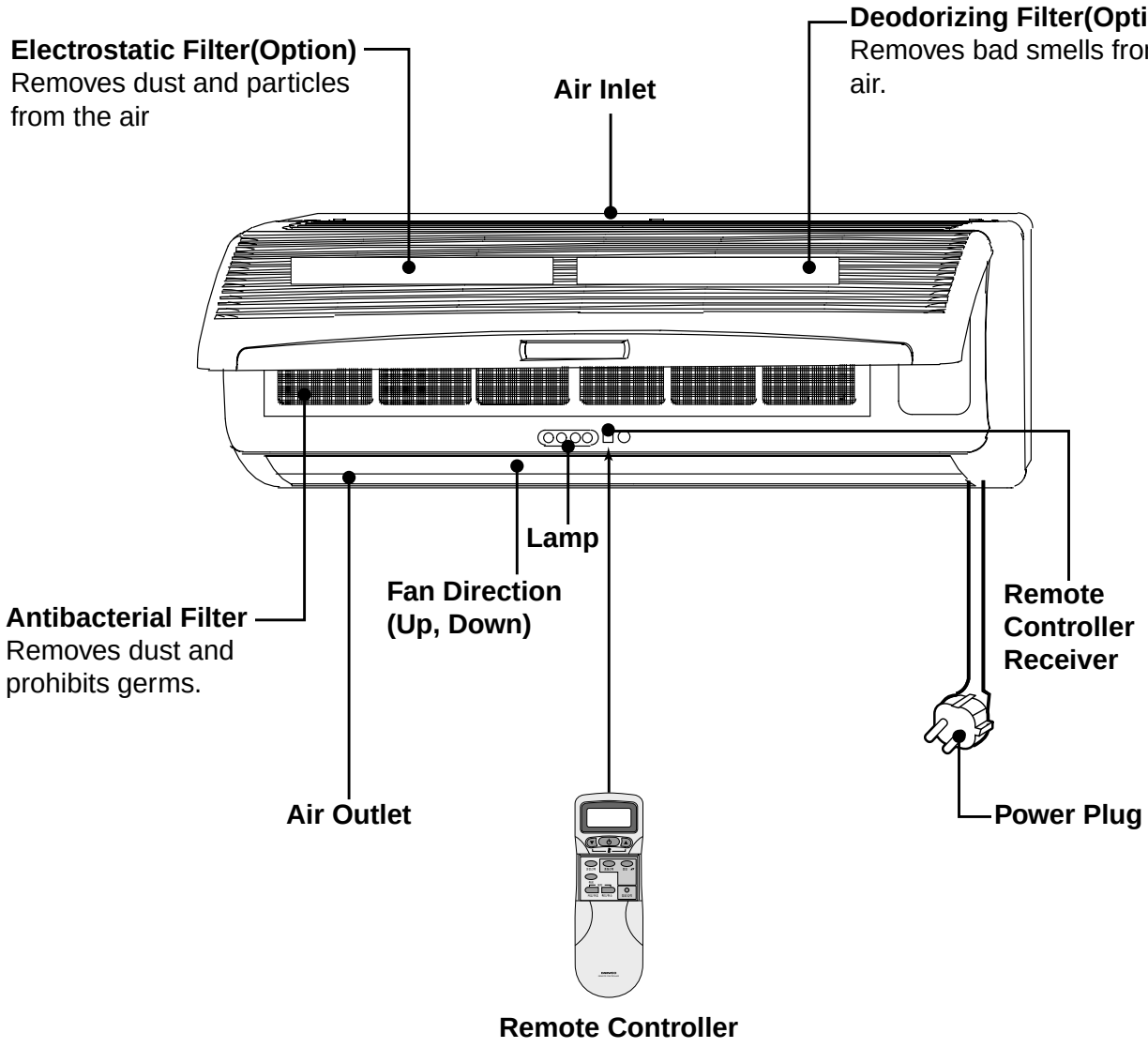
1 NAME AND FUNCTION OF PARTS

Indoor Unit

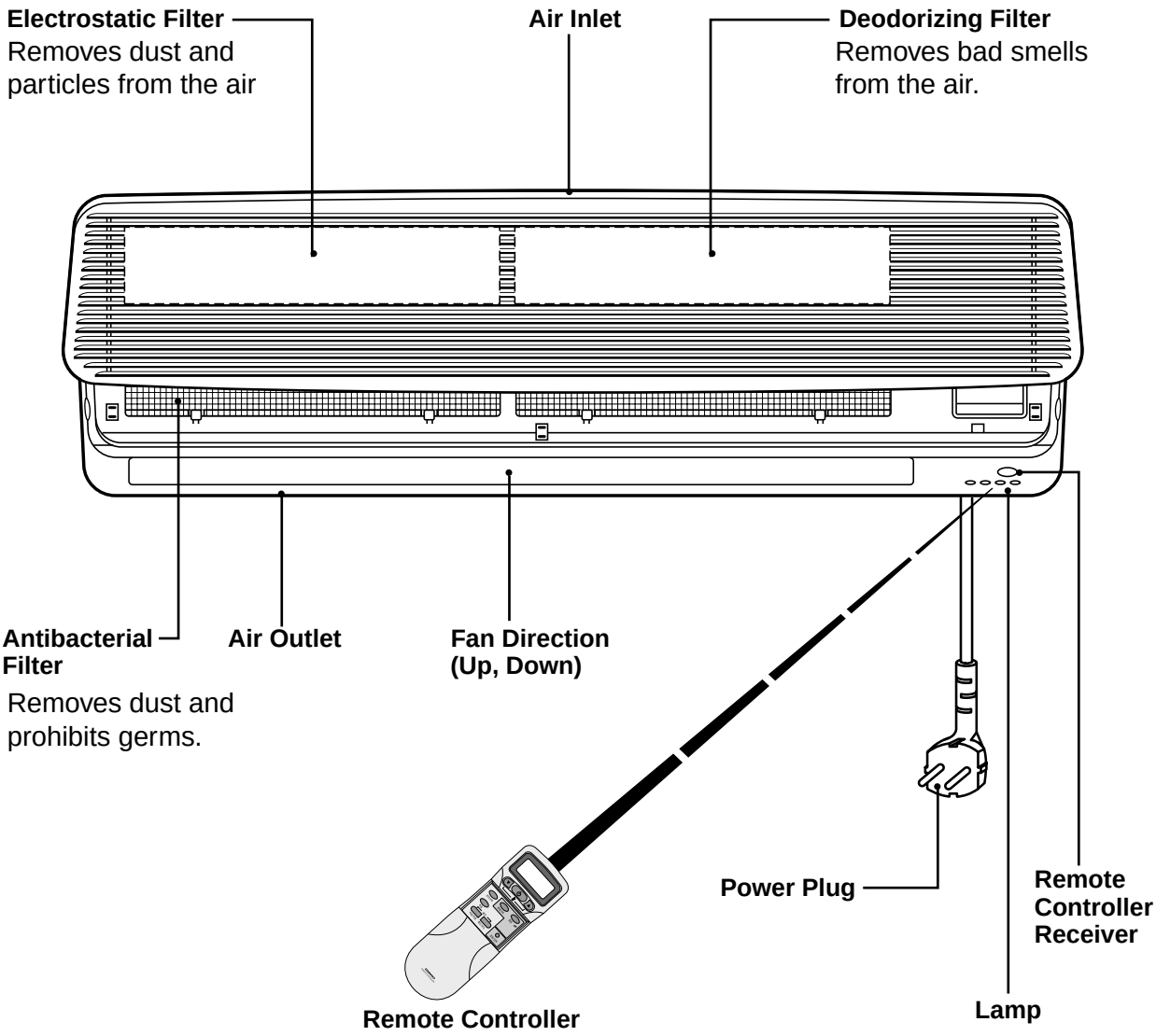
◆DSB-070LH/DSB-091LH



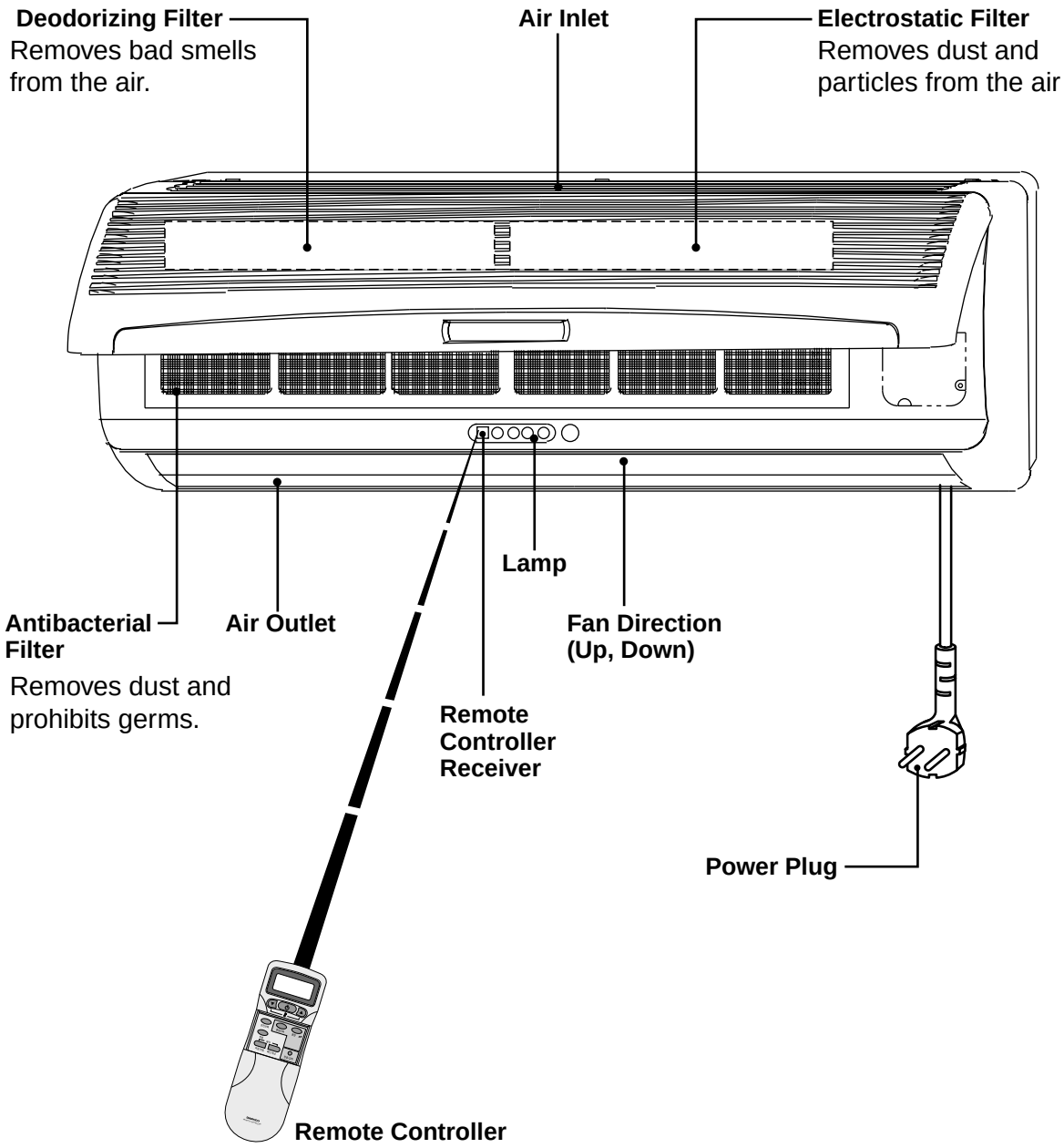
◆ DSB-071LH/DSB-092LH



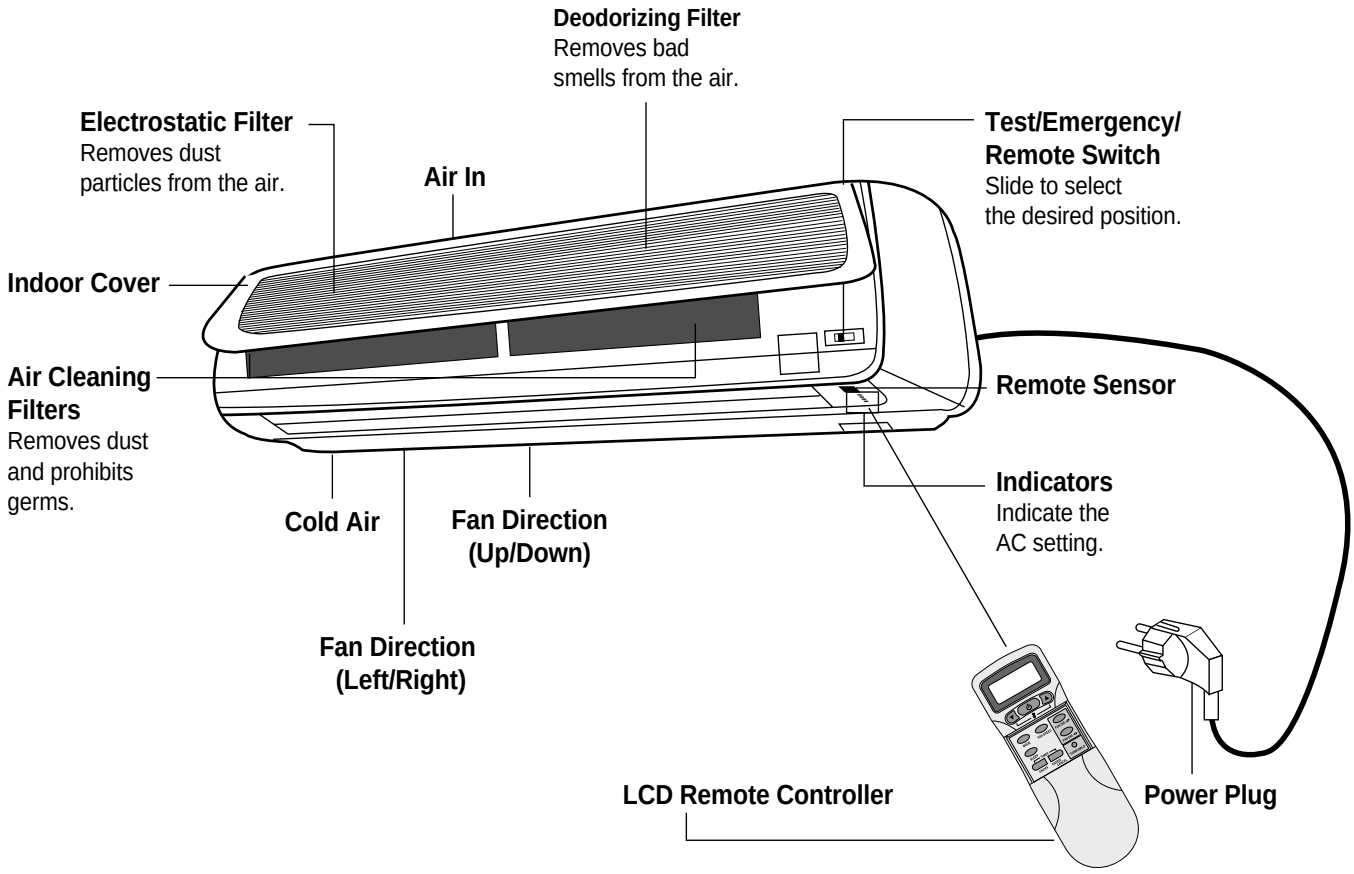
◆ DSB-121LH/122LH



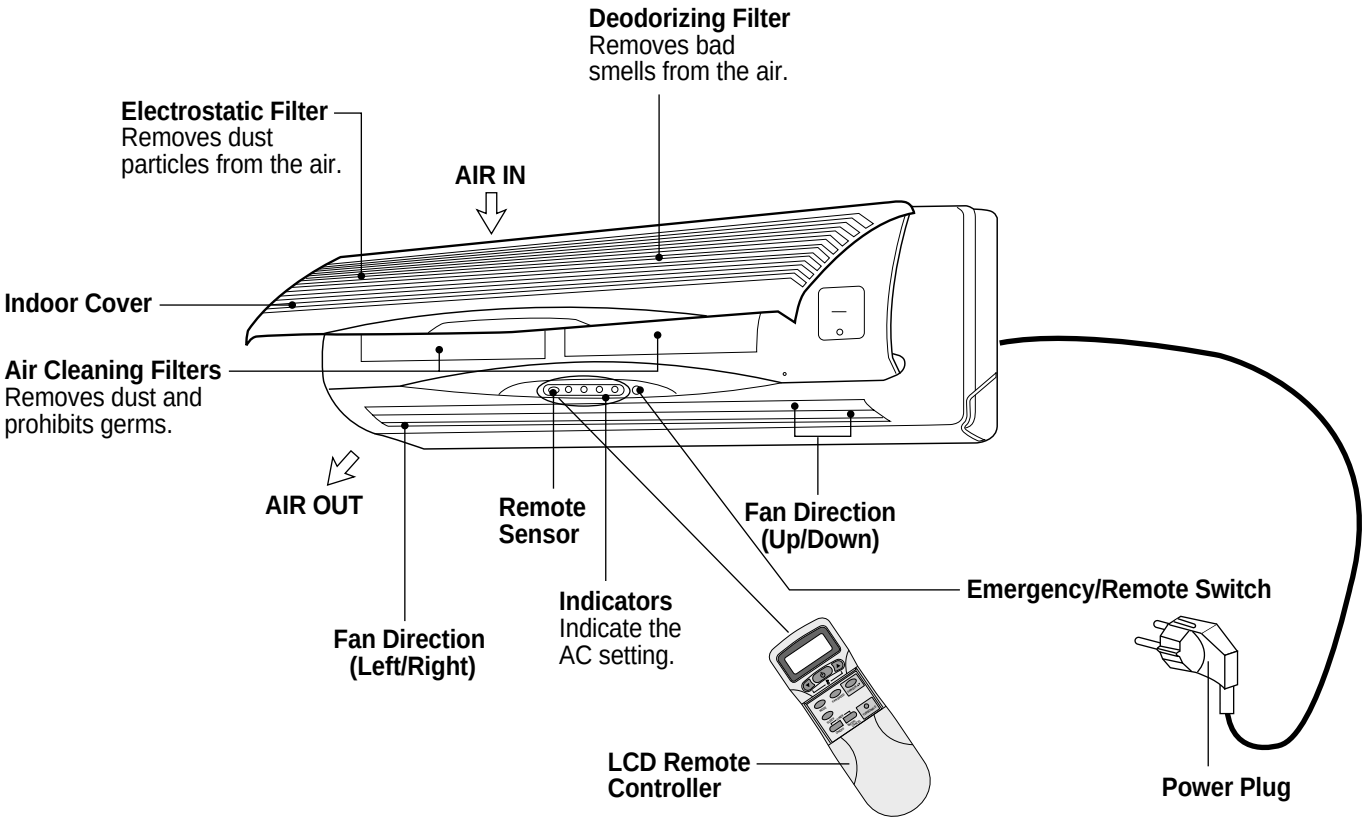
◆DSB-123LH


Deodorizing Filter
Removes bad smells from the air.
Air Inlet
Electrostatic Filter
Removes dust and particles from the air
Lamp
Antibacterial Filter
Removes dust and prohibits germs.
Air Outlet
Fan Direction (Up, Down)
Remote Controller Receiver
Power Plug
Remote Controller

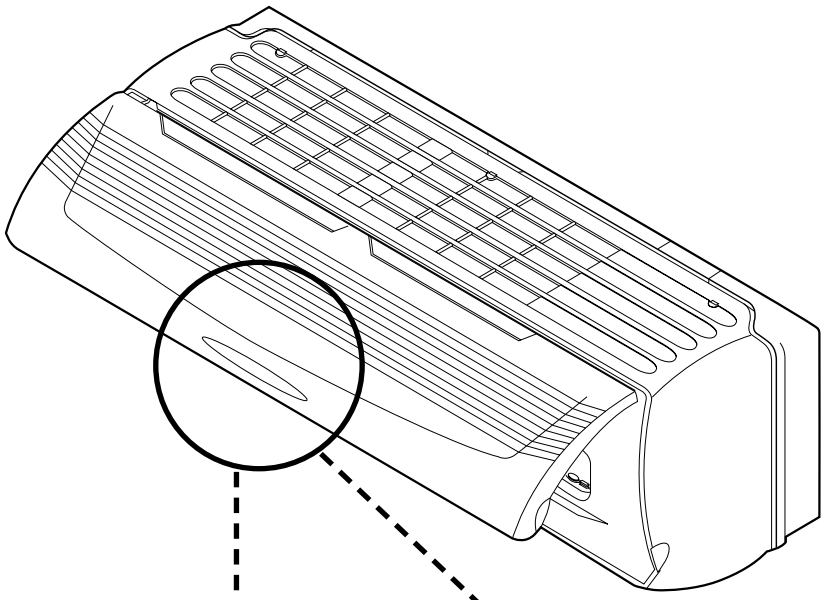
◆ DSB-182LH/DSB-182LH-R



◆ DSB-183LH-R/DSA-183LH-R/DSB-240LH-R/DSA-240LH-R



◆ DSB-070LH/DSB-091LH



Indoor Unit Display

■Remote Control Signal Receiver

This place is the part to receive the signal if it receives the signal, you can hear the signal “beep. “beep. beep.”

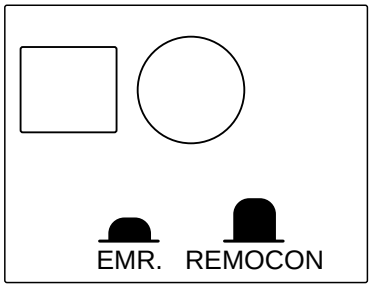
ON (Red)
Lights when the operation is going on.

Air clean (Green)

Timer (Yellow)
Lights during the time reservation mode.

Quick (Red)

Switch Panel

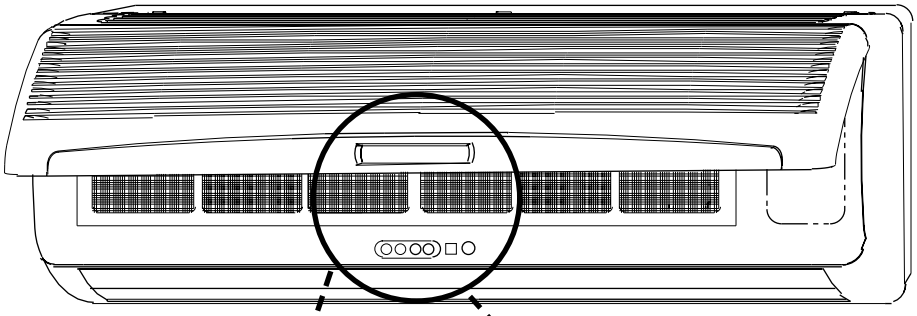


■ There is a switch panel at inside of Front Panel. At the time of operating, open the Front Panel.

Emergency switch can be used when the remote controller is lost or Testing.

Remote switch is usually used by remote controller.

◆ DSB-071LH/DSB-092LH



Indoor Unit Display

■Remote Control Signal Receiver

This place is the part to receive the signal if it receives the signal, you can hear the signal “beep. “beep. beep.”

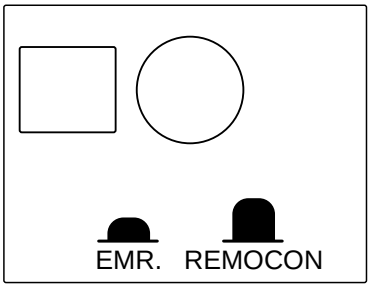
ON (Red)
Lights when the operation is going on.

Air clean (Green)

Timer (Yellow)
Lights during the time reservation mode.

Quick (Red)

Switch Panel

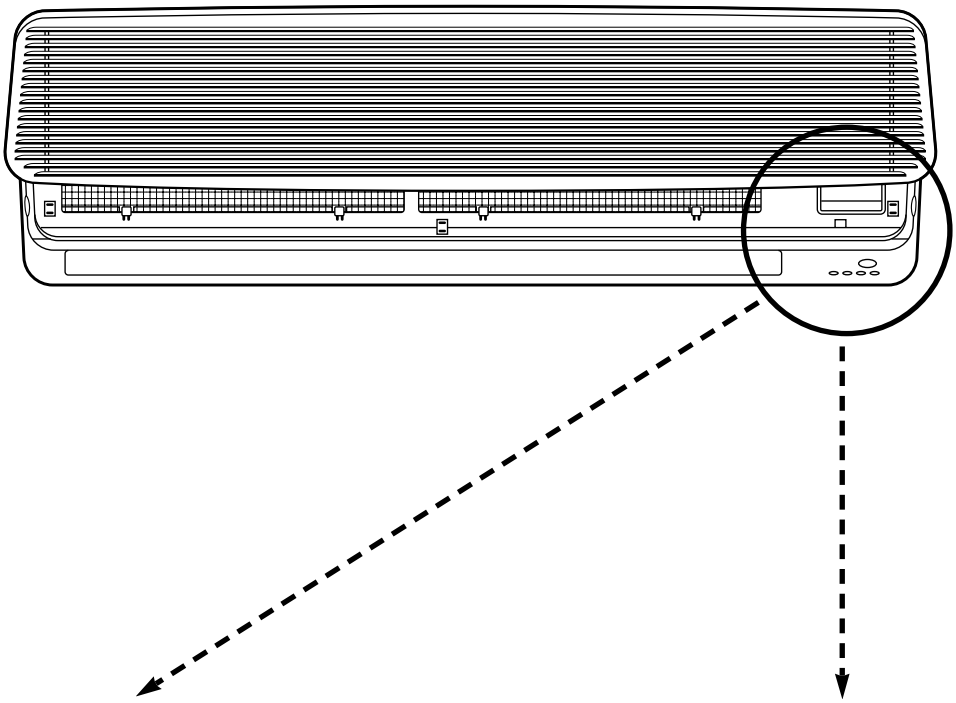


■ There is a switch panel at inside of Front Panel. At the time of operating, open the Front Panel.

Emergency switch can be used when the remote controller is lost or Testing.

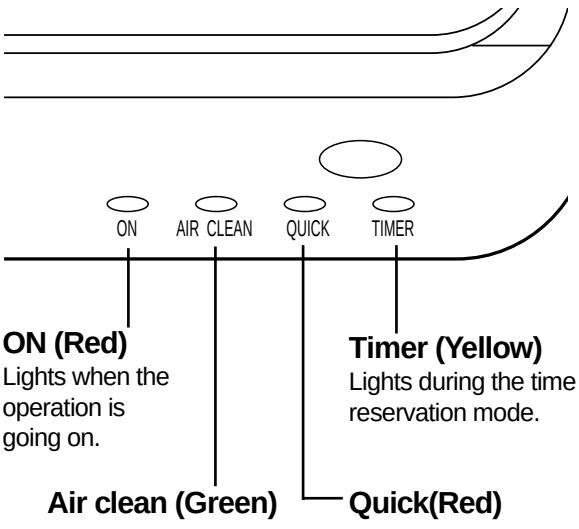
Remote switch is usually used by remote controller.

◆ DSB-121LH/122LH



Indoor Unit Display

Remote Control Signal Receiver
This place is the part to receive the signal if it receives the signal, you can hear the signal "beep, beep".



ON (Red)
Lights when the operation is going on.

Air clean (Green)

Quick(Red)

Timer (Yellow)
Lights during the time reservation mode.

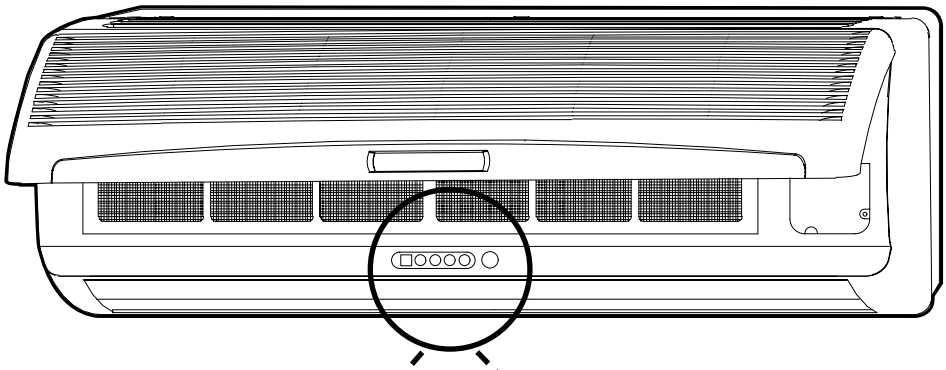
Switch Panel

*** There is a switch panel at inside of Front Panel. At the time of operating, open the Front Panel.**

Emergency switch can be used when the remote controller is lost or testing.

Remote switch is usally used by Remote Controller.

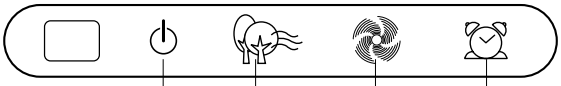
◆ DSB-123LH



Indoor Unit Display

■ **Remote Control Signal Receiver**

This place is the part to receive the signal if it receives the signal, you can hear the signal “beep. beep”.



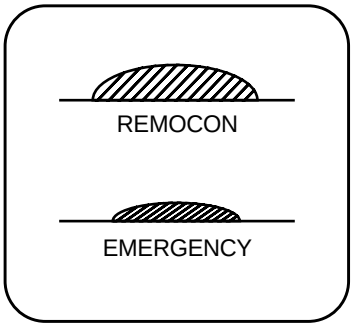
Air clean (Green)

Timer (Yellow)
Lights during the time reservation mode.

ON (Red)
Lights when the operation is going on.

Quick (Red)
Lights during the time Quick Mode.

Switch Panel

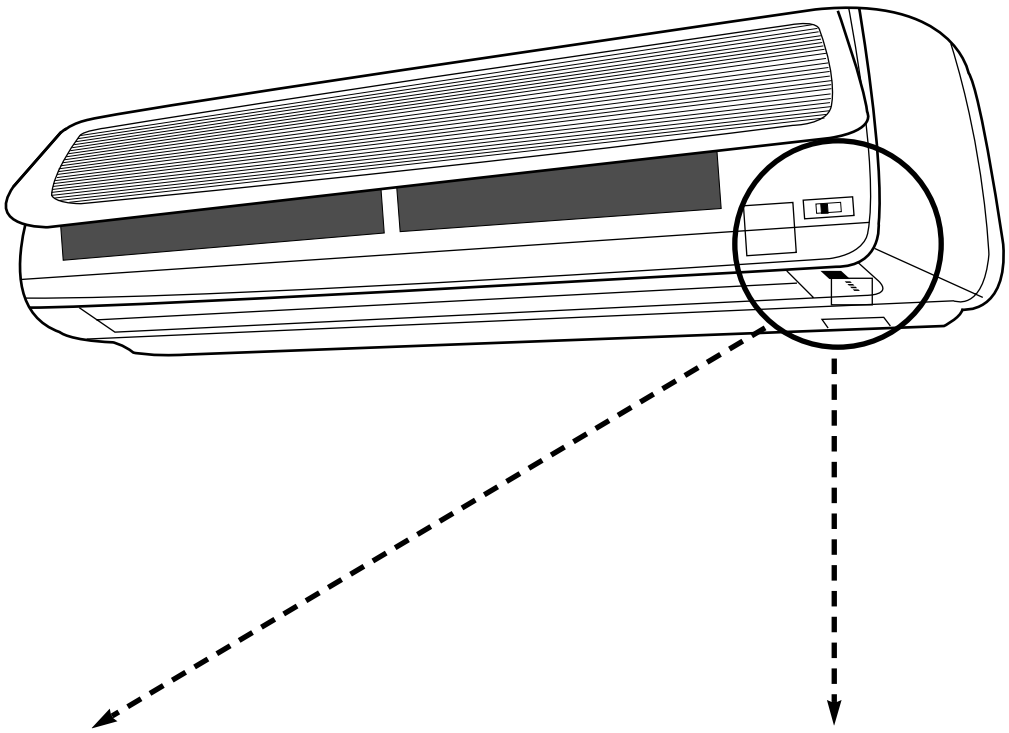


■**There is a switch panel at inside of Front Panel. At the time of operating, open the Front Panel.**

Emergency switch can be used when the remote controller is lost or Testing.

Remote switch is usually used by remote controller.

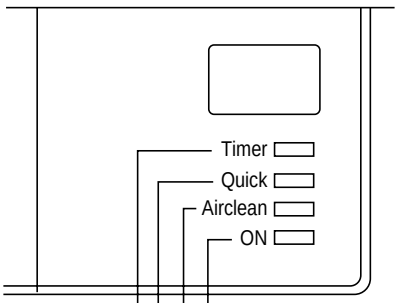
◆ DSB-182LH/182LH-R



Indoor Unit Display

■ Remote Control Signal Receiver

This place is the part to receive the signal if it receives the signal, you can hear the signal “beep. beep”.



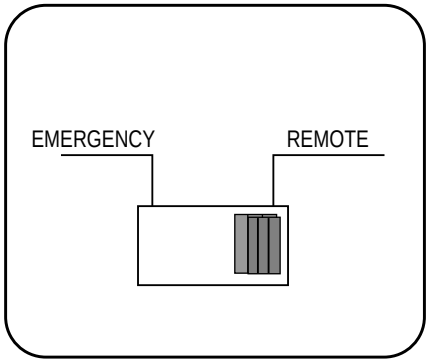
Timer (Yellow)
Lights during the time reservation mode.

Quick (Red)
Lights during the time Quick Mode.

ON (Red)
Lights when the operation is going on.

Air clean (Green)

Switch Panel

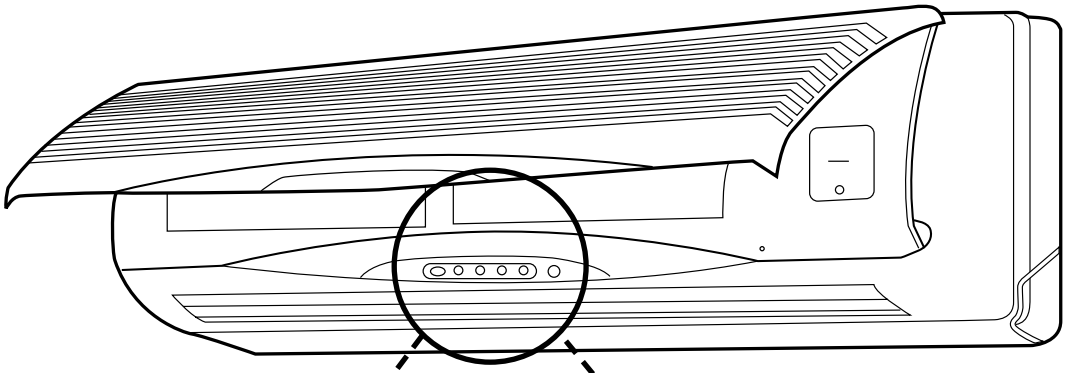


■ There is a switch panel at inside of Front Panel. At the time of operating, open the Front Panel.

Emergency switch can be used when the remote controller is lost or Testing.

Remote switch is usually used by remote controller.

◆ DSB-183LH-R/DSB-240LH-R/DSA-240LH-R



Indoor Unit Display

■ Remote Control Signal Receiver

This place is the part to receive the signal if it receives the signal, you can hear the signal “beep. “beep, beep.”

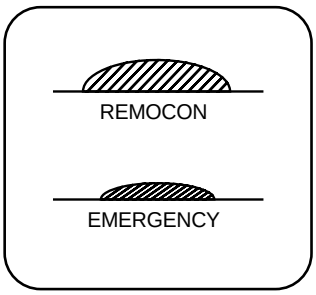
ON (Red)
Lights-on during the operation

Air clean (Green)
Lights-on during the operation

Timer (Yellow)
Lights-on during the time of reservation mode.

Quick (Red)
Lights-on during the time of Quick Mode.

Switch Panel



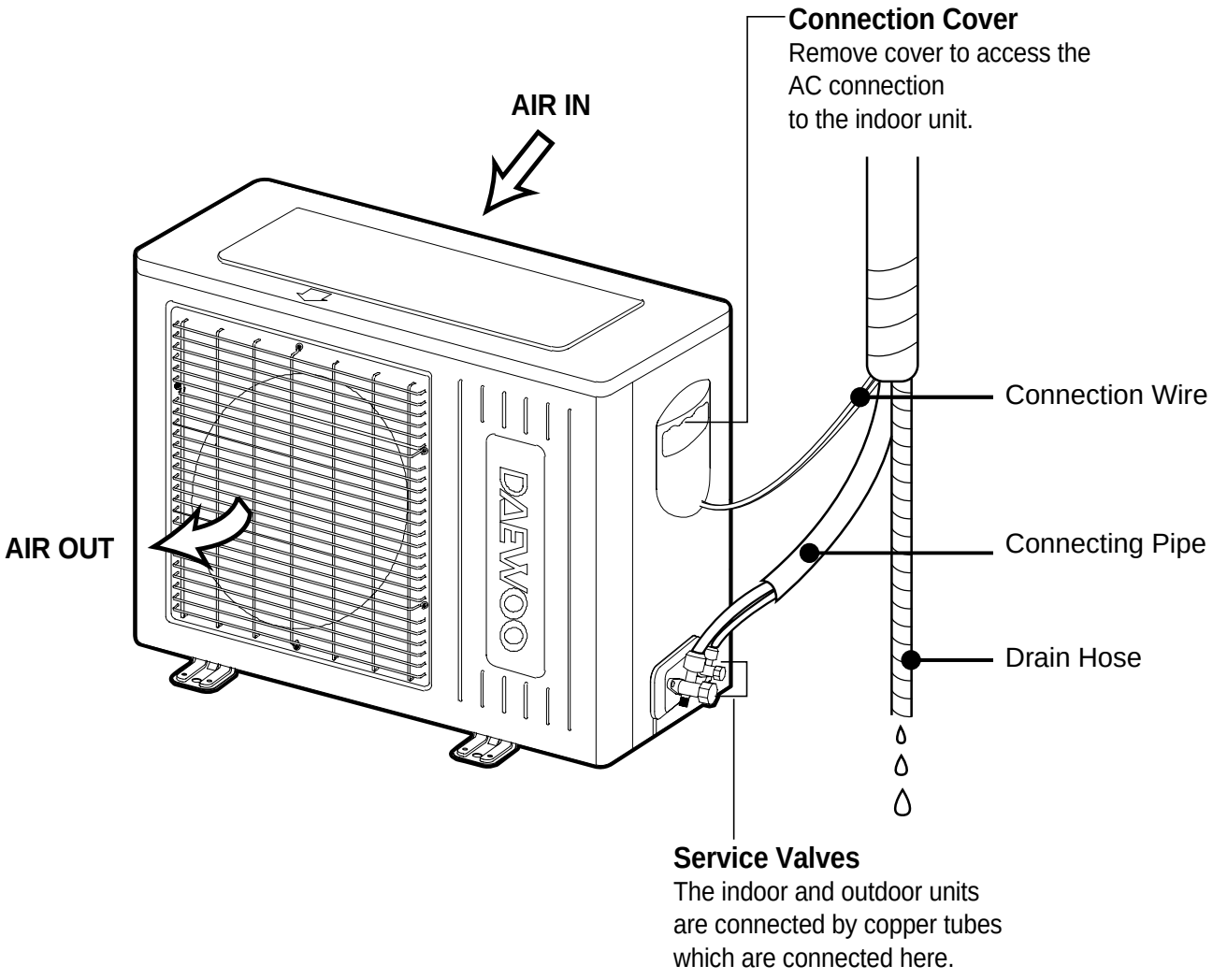
■ There is a switch panel at inside of Front Panel. At the time of operating, open the Front Panel.

Emergency switch can be used when the remote controller is lost or Testing.

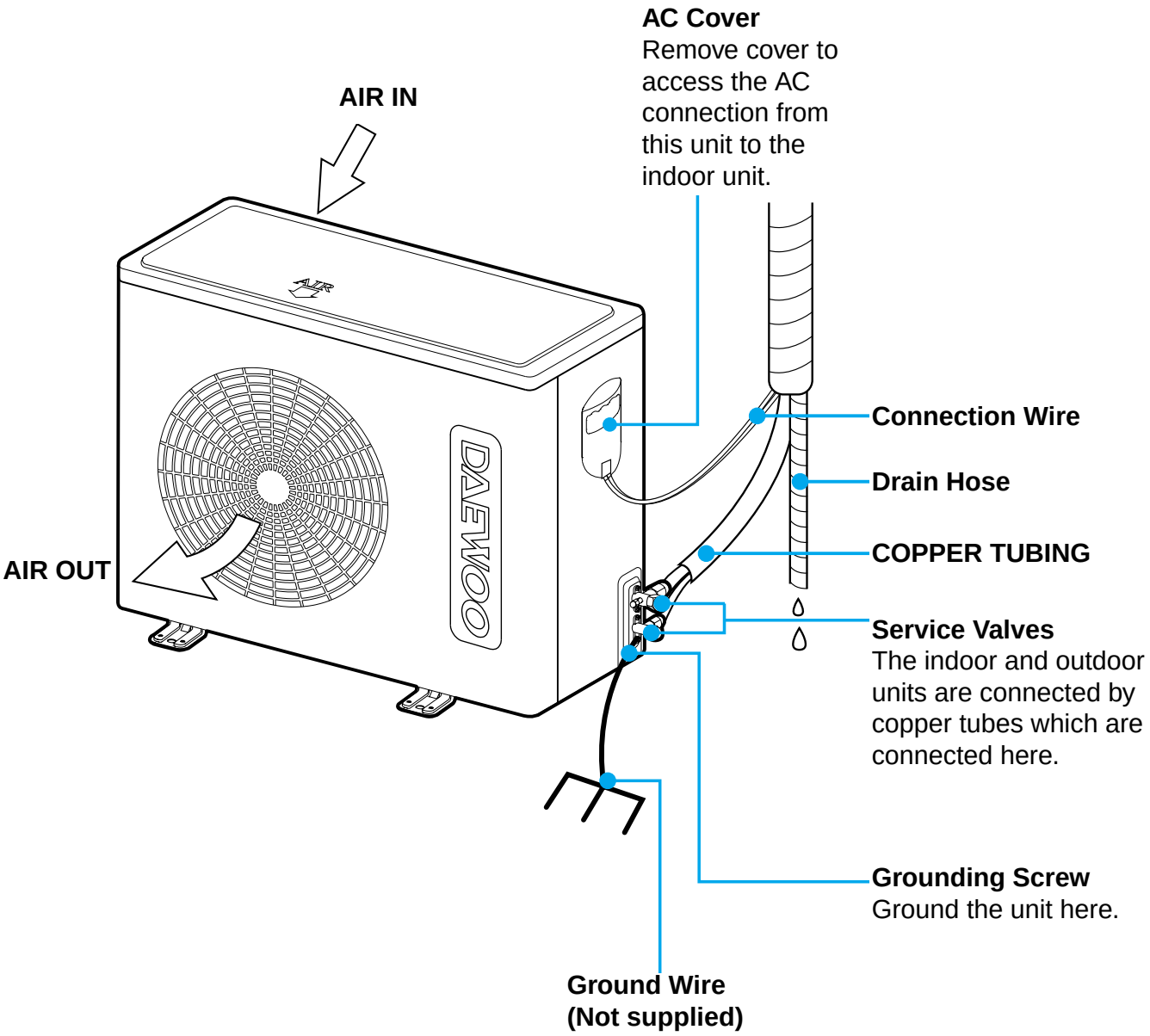
Remote switch is usually used by remote controller.

Outdoor Unit

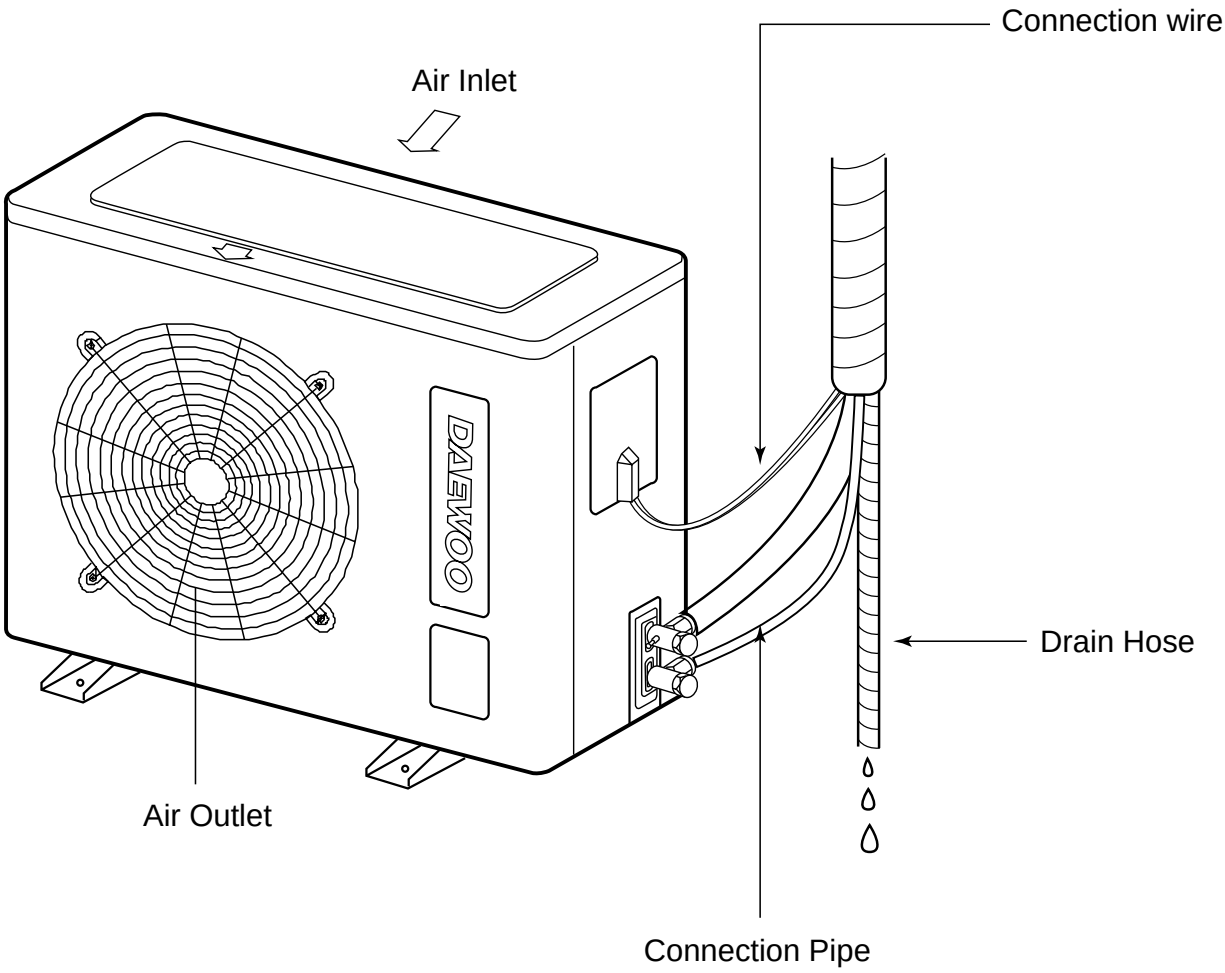
◆ DSB-070LH/071LH/DSB-091LH/092LH/DSB-121LH/122LH/123LH



◆ DSB-182LH/LH-R / DSA-183LH-R/DSB-183LH-R



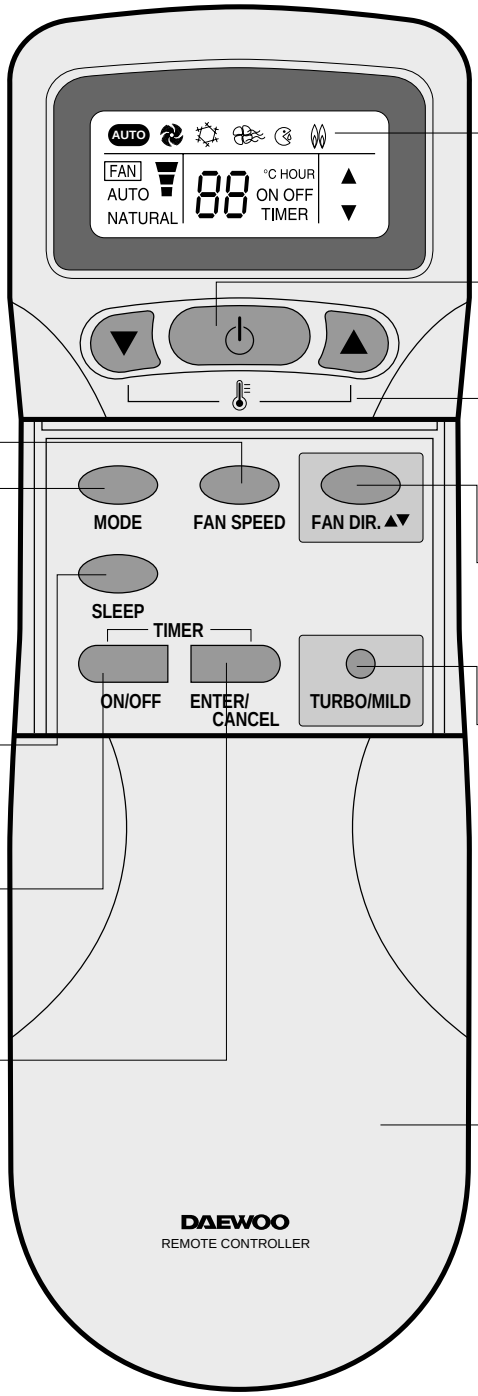
◆ DSB-240LH-R / DSA-240LH-R



2 REMOTE CONTROLLER

Name of Each Button

◆ **DSB-070LH/DSB-071LH/DSB-091LH/DSB-092LH/DSB-121LH/DSB-122LH/ DSB-123LH/DSB-183LH-R/DSA-183LH-R/DSB-240LH-R/DSA-240LH-R**



Display
Displays information pertaining to unit.

ON/OFF Button
Press to turn the unit on or off.

TEMPERATURE Buttons
Press to raise or lower the desired temperature.

FAN SPEED Button
Press to select the fan speed (High " ", Middle " ", Low " ").

MODE Button
Press to cycle through the modes (Auto/Quick/Cooling/Fan/Dry)

SLEEP Button
Press to set the unit for the sleep mode.

TIMER ON/OFF Button
Press to set the unit off or on time. (0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12, 16, 20, 24hr)

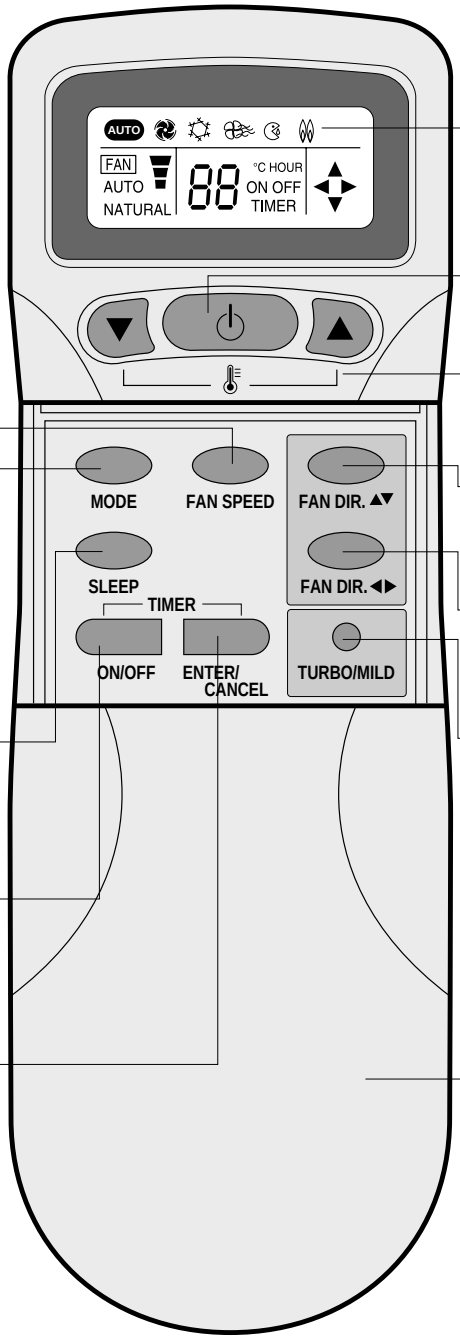
TIMER ENTER/CANCEL Button
Press to enter a timer setting or to cancel timer setting

FAN DIR. ▲▼ Button
Press to select up/down direction for fan.

TURBO/MILD
Press to select super power operation(Turbo) mode

COVER
Slide down to access most of the remote buttons. Slide down further to access the battery compartment.

◆ DSB-182LH/182LH-R



Display
Displays information pertaining to unit.

ON/OFF Button
Press to turn the unit on or off.

TEMPERATURE Buttons
Press to raise or lower the desired temperature.

FAN SPEED Button
Press to select the fan speed (High " ▼ ", Middle " ▼ ", Low " - ", Natural).

FAN DIR. ▲▼ Button
Press to select up/down direction for fan.

MODE Button
Press to cycle through the modes (Auto/Quick/Cool/Fan/Dehumidifier/ Heat)

FAN DIR. ◀▶ Button
Press to select left/right direction for fan.

SLEEP Button
Press to set the unit for the sleep mode.

TURBO/MILD
Press to select super power operation(Turbo) mode

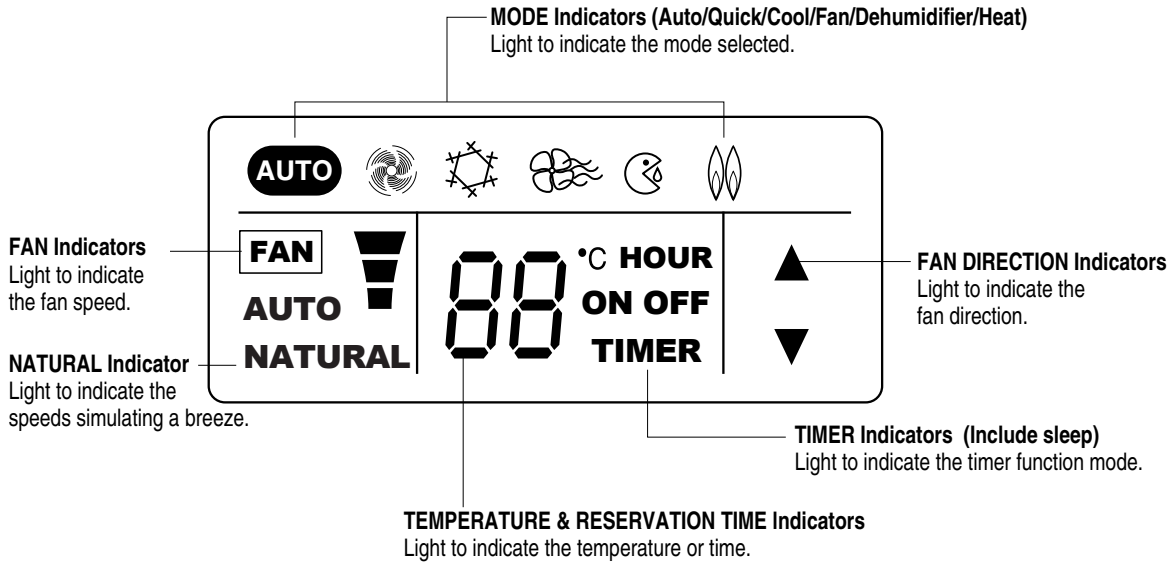
TIMER ON/OFF Button
Press to set the unit off or on time. (0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12, 16, 20, 24hr)

TIMER ENTER/CANCEL Button
Press to enter a timer setting or to cancel timer setting

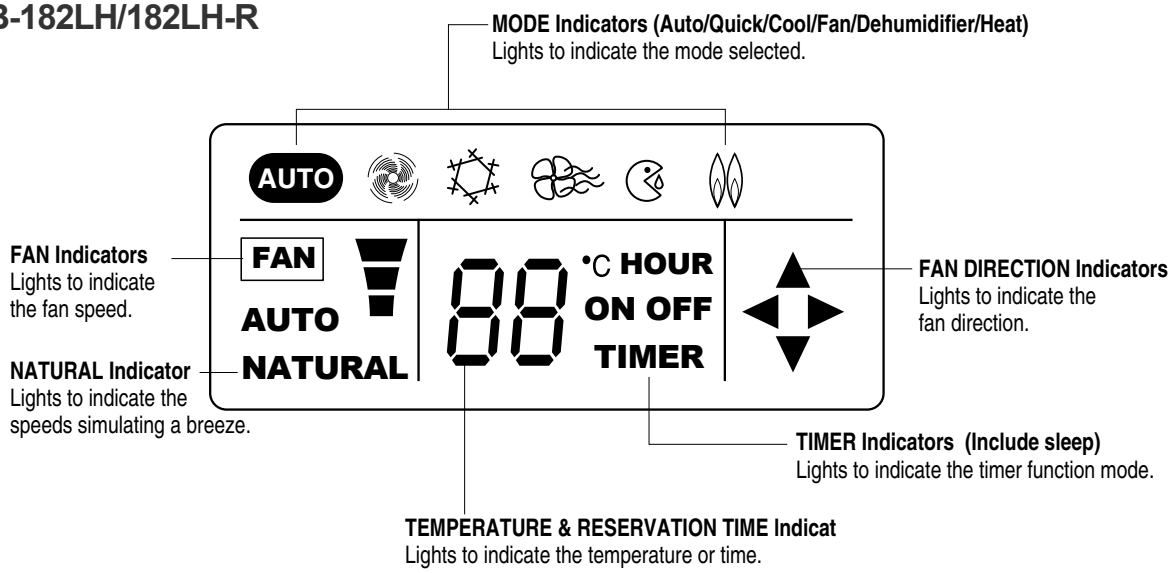
COVER
Slide down to access most of the remote buttons. Slide down further to access the battery compartment.

3 REMOTE CONTROLLER DISPLAY

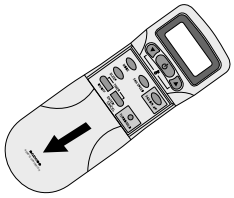
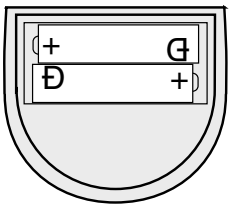
◆ DSB-070LH/DSB-071LH/DSB-091LH/DSB-092LH/DSB-121LH/DSB-122LH/ DSB-123LH/DSB-183LH-R/DSA-183LH-R/DSB-240LH-R/DSA-240LH-R



◆ DSB-182LH/182LH-R



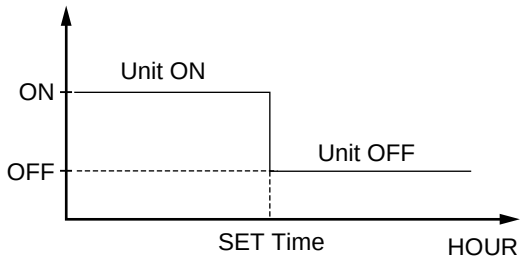
Replacing Batteries

1	2	3
Open the cover after pressing the arrow direction and pulling out.	Put the drycell by +, - direction.	Close the cover after pushing into arrow direction.
		

4 DESCRIPTION OF FUNCTIONS

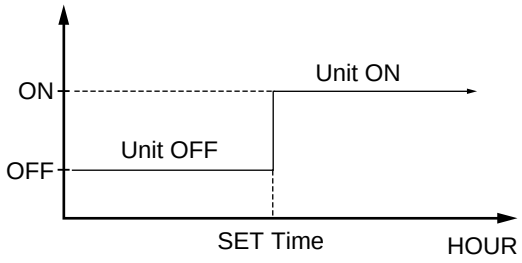
OFF-Timer

If you set time in OFF-Timer Mode, the unit will stop at the set time.



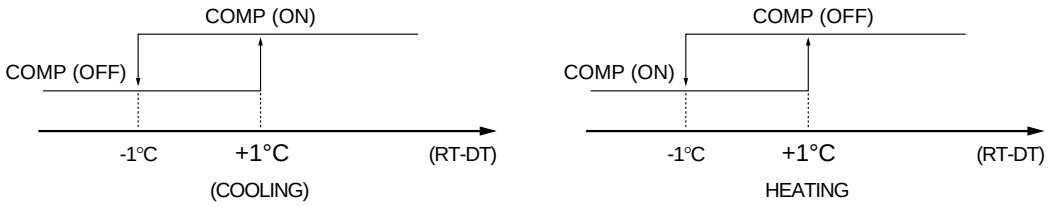
ON-Timer

If you set time in ON-Timer Mode, the unit will run at the set time.



Control of Room Temperature

(1) Range of setting temperature: 18~32°C
(2) Setting temperature: Operating temperature of compressor



*RT: ROOM TEMPERATURE
DT: DESIRED TEMPERATURE

(3) During the time of test operating, Fan (Indoor, Outdoor) and Compressor is running regardless of room temperature.

Buzzer

If the Indoor Unit Display receive the signal of Remote Controller, you can hear the signal "beep –" or "beep, beep".
(1) In the case of receiving ON/OFF signal-"beep" "beep"
(2) And so on-"beep"

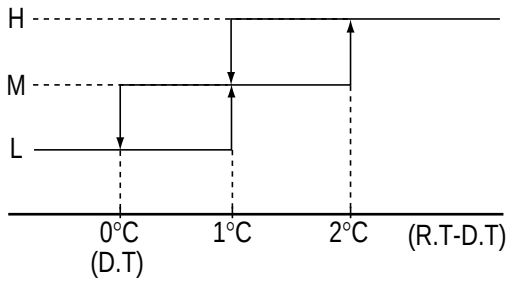
Fan Speed (Indoor Unit)

(1) Motor speed (high speed, middle speed, low speed).
(2) Remote controller setting fan speed. (Auto, L, M, H, Natural)
(3) Relation of operating mode between fan speed.

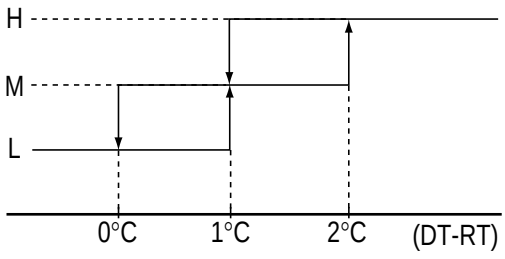
	FAN ONLY	COOL	DEHUMI-DIFICATION	AUTO	QUICK	HEAT
H	H	H	L	H	H	H
M	M	M	L	M	H	M
L	L	L	L	L	H	L
Auto	X	Auto	L	Auto	H	Auto
Natural	Natural	Natural	L	Natural	H	Natural

(4) Automatic Operation
If the unit is set in 'AUTO' mode, the unit operates automatically according to the room temperature to keep the room temperature comfortable.

(COOLING)

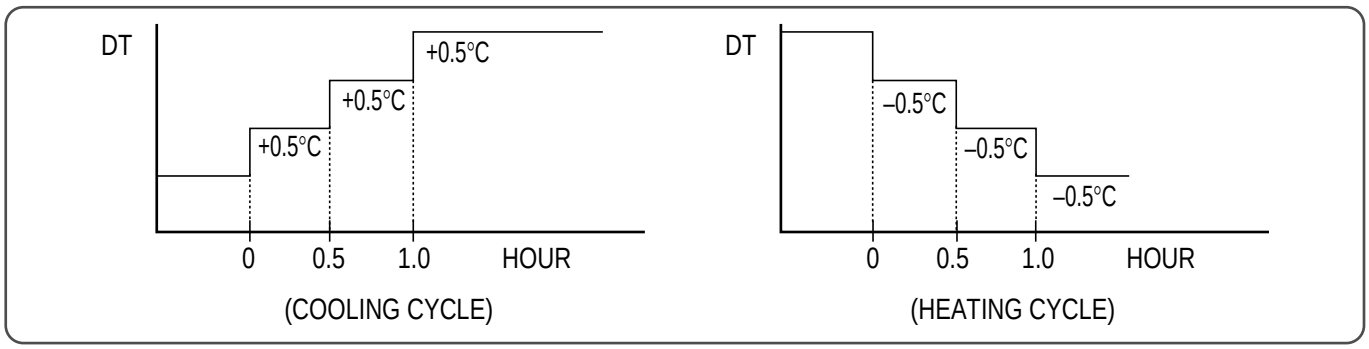


(HEATING)



Sleep Mode

(1) When you are going to sleep, select sleep switch and the unit controls the room to the desired temperature. (The unit will not operate after 4 hour)
(2) For changing the temperature.



(3) To cancel sleep mode, press the SLEEP button again or press the MODE button once.: the SLEEP indicator will disappear in the display.

Emergency Operation

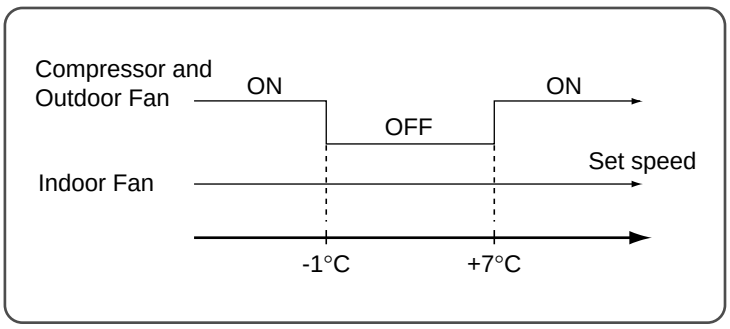
(1) When the remote controller is lost, damaged or the battery is discharged, the Emergency operation can be used to run the unit.
(2) The setting conditions of Emergency operation are as follows.
- Operation mode: Quick
- Preset temperature:18°C: Cooling, 32°C: Heating)
- Fan speed: High

You cannot operate with remote controller.

Frost Prevention of Indoor Unit

When the unit operates at low ambient temperature, frost may appear on the Evaporator. When the indoor coil temperature is lower than 0°C at the end of 10 minutes of continuous compressor operation from the start, the microcomputer of the unit stops the compressor to protect the unit from the frost. The control procedure for indoor coil freeze protection.

1) The compressor and outdoor fan turn off.
2) Indoor fan operates according to user set speed.
3) The normal operation returns when the indoor coil temperature is higher than 7°C or equal to 7°C.



(Indoor coil temperature)

3 min. Time Delay of Compressor

In normal operation, there is a time delay of three minutes between turn off and turning back on including initial power up.

Auto Mode

(1) In Auto Mode

After the indoor fan is operated for 20 seconds in the Auto Mode the unit will operate automatically by selecting operating Mode according to the room temperature

(RT: Room temperature)

ROOM TEMPERATURE	OPERATING MODE	FLAP POSITION
DT-2°C ＞RT	Heating	Heating Position
DT-2°C ≦ RT ≦ DT+3°C	Dehumidifier	Cooling Position
DT+3°C ＜ RT	Cooling	Cooling Position

(2) Selecting Operating Mode Again

Room temperature meets desired temperature and the compressor stops running over 30 minutes, then the unit selects operating Mode again.

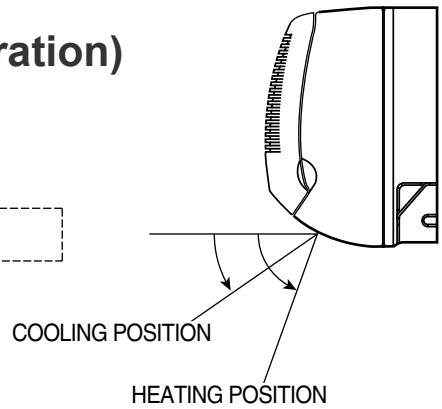
Dehumidification Mode

Desired temperature < Room temperature
Outdoor Fan, Compressor : ON
Indoor Fan : Low speed
Desired temperature ≧ Room temperature
Compressor : 3 min/ON, 5 min/OFF
Fan Speed : low speed
Room temperature ≦ 18 C
Compressor : OFF
Fan speed : Low speed

Air Discharge Direction(only remocon operation)

The air discharge direction procedure is below.

Fixed → Up/Down → Fixed
Up/Down ←



Quick Mode(Powerful Cooling & Heating)

1) Cooling Mode

*** When the room temperature is higher than 22 C**

Fan Speed: Super high speed
Air discharge direction: Fixed
Set temperature: 18 C (Fixed)
Compressor and Outdoor Fan
The air discharge direction procedure is below

Fixed → Up/Down
Up/Down ← Fixed ←

The option is LEFT/RIGHT direction.

1) Heating Mode

*** When the room temperature is higher than 22 C**

Fan Speed: Super high speed
Air discharge direction: Fixed
Set temperature: 18 C (Fixed)
Compressor and Outdoor Fan
The air discharge direction procedure is below

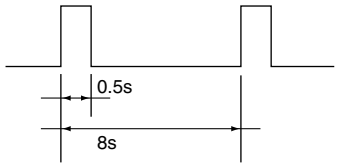
Fixed → Up/Down
Up/Down ← Fixed ←

The option is LEFT/RIGHT direction.

Self-Diagnostic Function

The control will contain diagnostic test to verify the integrity of the system.

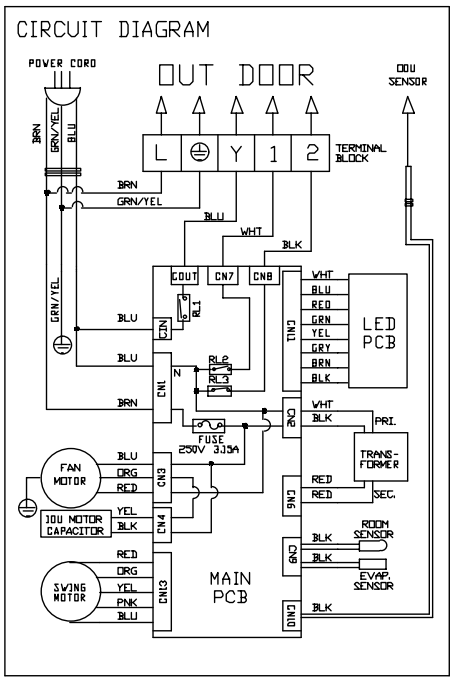
(1) Error Code Display Pattern
ON LAMP: Blink

LED BLINK PATTERN	CASE	NOTE
 1 times blink	Room Sensor open or Short	• Continuously woorking to fix room temperature 18¡C in heating mode. • Continuously woorking to fix room temperature 32¡C in cooling mode
	• I/D coil sensor open or short • O/D coil sensor open or short	Do not woorking
2 times blink	• Compressor or electrical parts of compressor error. • Gas leak	Continuously workiug

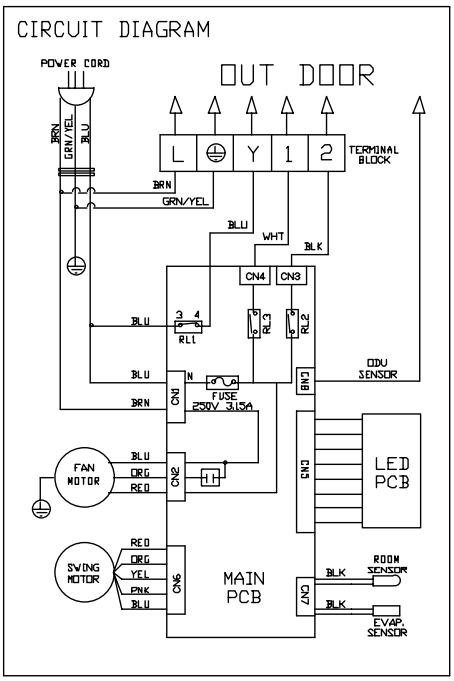
4. WIRING DIAGRAM

Indoor Unit

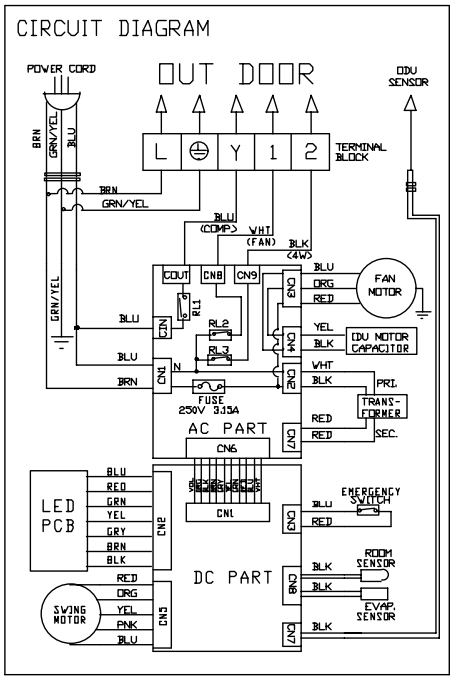
◆DSB-070LH/091LH



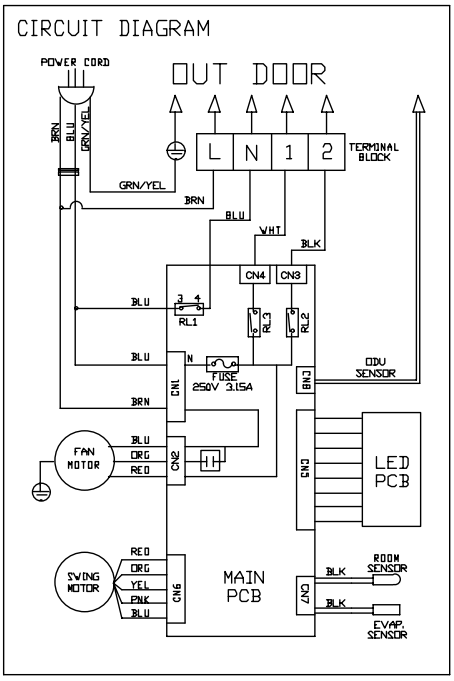
◆DSB-071LH/092LH



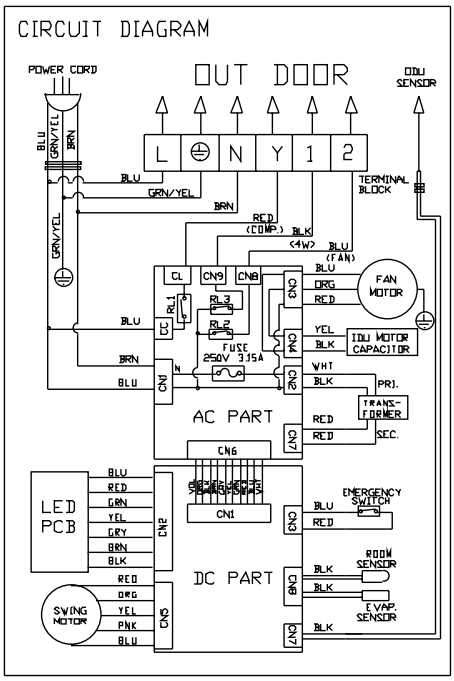
◆DSA-121LH/122LH, DSB-121LH/122LH



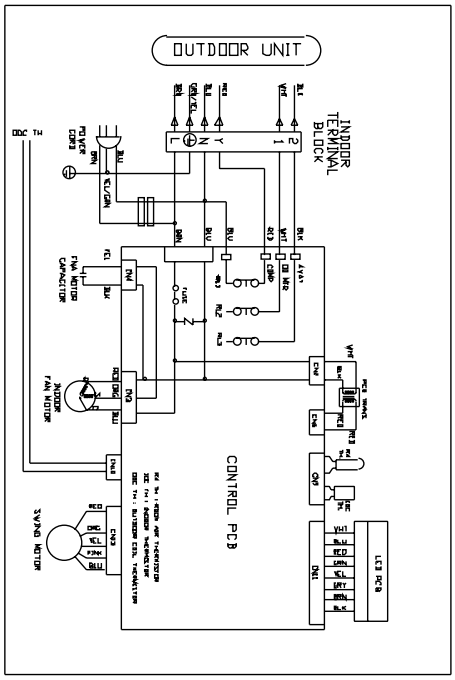
◆DSB-123LH



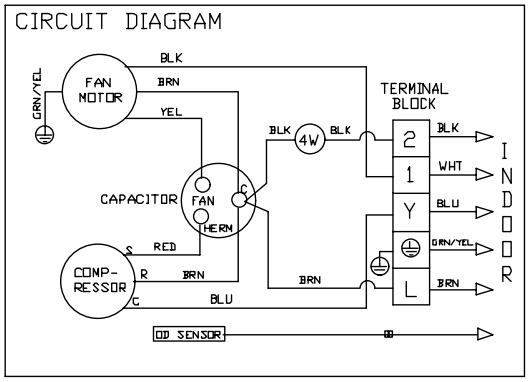
◆DSA-181LH/182LH
DSB-181LH/182LH/182LH-R



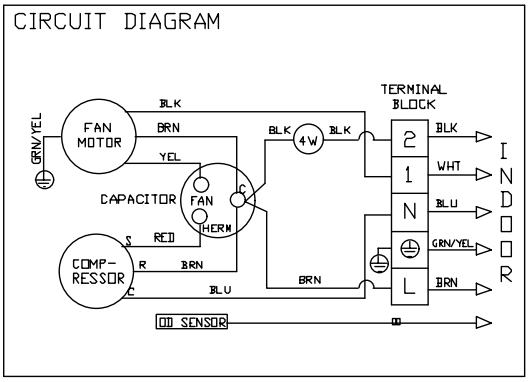
◆DSA-183LH-R, DSB-183LH-R
DSA-240LH-R, DSB-240LH-R



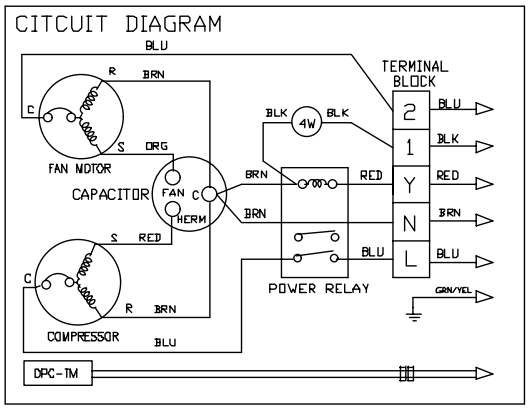
◆DSA-121LH/122LH, DSB-070LH/071LH
DSB-091LH/092LH/121LH/122LH



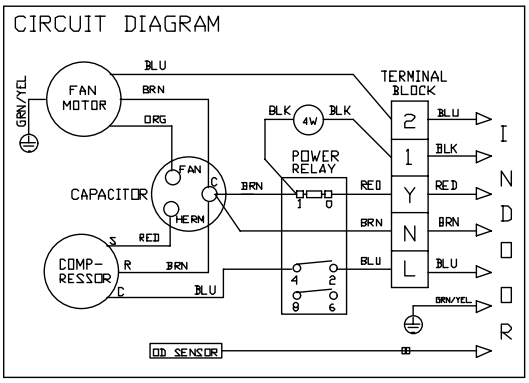
◆DSB-123LH



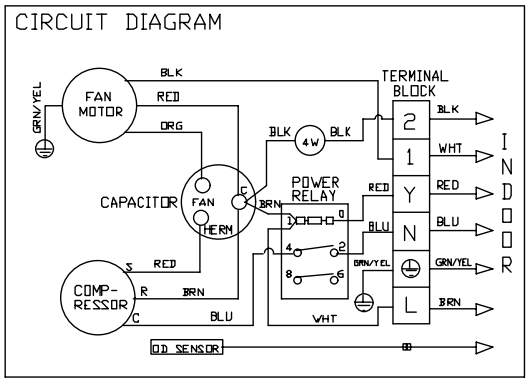
◆DSA-181LH/182LH
DSB-181LH/182LH/182LH-R



◆DSA-183LH-R, DSB-183LH-R



◆DSA-240LH-R/240PH-R
DSB-240LH-R/240PH-R



1 MAIN ELECTRIC PARTS

◆ DSB-070LH/071LH

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor	3108003800	YDK-8-4B	1	
	Fan Motor Capacitor	3106900300	1.0μF 400VAC	1	
	Fuse	5FVLB3152L	250V 3.15A	1	
	Stepping Motor	3108003900	GSP-24SW-061	1	
	Terminal Block	3108912301	SN-DBW-05P	1	
Outdoor Unit	Compressor	3107101200	KH134VLLC	1	
	Fan Motor	3108004000	YDK-30-6B	1	
	Dual Capacitor	3109501201	1.8+25μF 400VAC	1	
	Terminal Block	3108912301	SN-DBW-05P	1	

◆ DSB-091LH/092LH

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor	3108003800	YDK-8-4B	1	
	Fan Motor Capacitor	3106900300	1.0uF 400VAC	1	
	Fuse	5FVLB3152L	250V 3.15A	1	
	Stepping Motor	3108003900	GSP-24SW-061	1	
	Terminal Block	3108912301	SN-DBW-05P	1	
Outdoor Unit	Compressor	3RC0020KE0	RBB100A001	1	
		3107101900	RBB100A011	1	
	Fan Motor	3108004100	YDK-30-6B	1	
	Dual Capacitor	3109502010	1.8+30μF 400VAC	1	
		3109502030	1.8+35μF 400VAC	1	
	Terminal Block	3108912301	SN-DBW-05P	1	
	Reversing Valve	3104401010	CHV-0104	1	
	Solenoid coil	3109700110	CHV01AJ	1	

◆ DSB-121LH/122LH

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor	3108001220	YDK-8-4B/A	1	
	Fan Motor Capacitor	3106900300	1.0uF 400VAC	1	
	Fuse	5FVLB3152L	250V 3.15A	1	
	Transformer	5EPV050100	220V/18V	1	
	Stepping Motor	3108000100	MP28GA (L=400mm)	1	
	Terminal Block	3108912301	SN-DBW-05P	1	
Outdoor Unit	Compressor	3100030CE0	RCB150A001	1	
	Fan Motor	3108000800	YDK-40-4B	1	
	Dual Capacitor	3109500700	3.5+25μF 400VAC	1	
	Terminal Block	3108912301	SN-DBW-05P	1	
	Reversing Valve	3105401000	VH7-A TYPE	1	
	Solenoid coil			1	

◆ DSB-123LH

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor	3118003500	RP13B	1	
	Fan Motor Capacitor	CMXW2G155K	1.5uF 400VAC	1	
	Fuse	5FVLB3152L	250V 3.15A	1	
	Stepping Motor	3108003910	MP24GA	1	
	Terminal Block	3118900200	JXO-CH-2P	1	
Outdoor Unit	Compressor	3100030CE0	RCB150A001	1	
	Fan Motor	3108000800	YDK-40-4B	1	
	Dual Capacitor	3109500700	3.5+25μF 400VAC	1	
	Terminal Block	3108912301	SN-DBW-05P	1	
	Reversing Valve	3105401000	VH7-A TYPE	1	
	Solenoid coil			1	

◆ DSB-182LH/182LH-R

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor	3108000311	IC-9425DWKC5C	1	
	Fan Motor Capacitor	3106900200	1.2μF 450VAC	1	
	Fuse	5FVLB3152L	250V 3.15A	1	
	Transformer	5EPV633110	220V 50Hz	1	
	Stepping Motor	3108004300	DC12V, 400mm	2	
		3108004310	DC12V, 1300mm	1	
	Terminal Block	3108912320	SN-DBW-4P	1	
Outdoor Unit	Compressor	3107140100	SHW-33TC4-U	1	DSB-182LH
		3100068010	SHW33TCA-U	1	DSB-182LH-R
	Fan Motor	3108009100	YDK-50-6B	1	
	Dual Capacitor	3116901800	3+50μF 400VAC	1	
	Terminal Block	3108912300	SN-DBW-3P	1	
	Reversing Valve	3105400310	STF-0201	1	
	Solenoid Coil	3109700110	CHV-01AJ506BT	1	

◆DSA-183LH-R

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor	3108007500	IC-9430DWKF7A	1	
	Fan Motor Capacitor	3106902400	2uF 400VAC	1	
	Fuse	5FVLB3152L	250V 3.15A	1	
	Transformer	5EPV050120	DWA220B	1	
	Stepping Motor	3108007600	GSP-24RW-062	1	
	Terminal Block	3108912320	SN-DBW-4P	1	
Outdoor Unit	Compressor	3100068110	AWG5519EXN	1	
	Fan Motor	3108000521	IC-1625DWCF6B	1	
	Dual Capacitor	3116902500	4+25μF 440VAC	1	
	Terminal Block	3108912300	SN-DBW-3P	1	
	Reversing Valve	3105400310	STF-0201	1	
	Solenoid coil	3109700110	CHV-01AJ506BT	1	

◆DSB-183LH-R

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor	3108003800	220/50/60Hz	1	
	Fan Motor Capacitor	3106902400	2.0uF 400VAC	1	
	Fuse	5FVLB3152L	250V 3.15A	1	
	Transformer	5EPV050120	230V/50Hz	1	
	Stepping Motor	3108007600	GSP-24RW-062	1	
	Terminal Block	3108912320	SN-DBW-4P	1	
Outdoor Unit	Compressor	3107140100	SHW-33TC4-U	1	DSB-182LH
	Fan Motor	3108009100	YDK-50-6B	1	
	Dual Capacitor	3116901800	3+50μF 400VAC	1	
	Terminal Block	3108912300	SN-DBW-3P	1	
	Reversing Valve	3105400310	STF-0201	1	
	Solenoid Coil	3109700110	CHV-01AJ506BT	1	

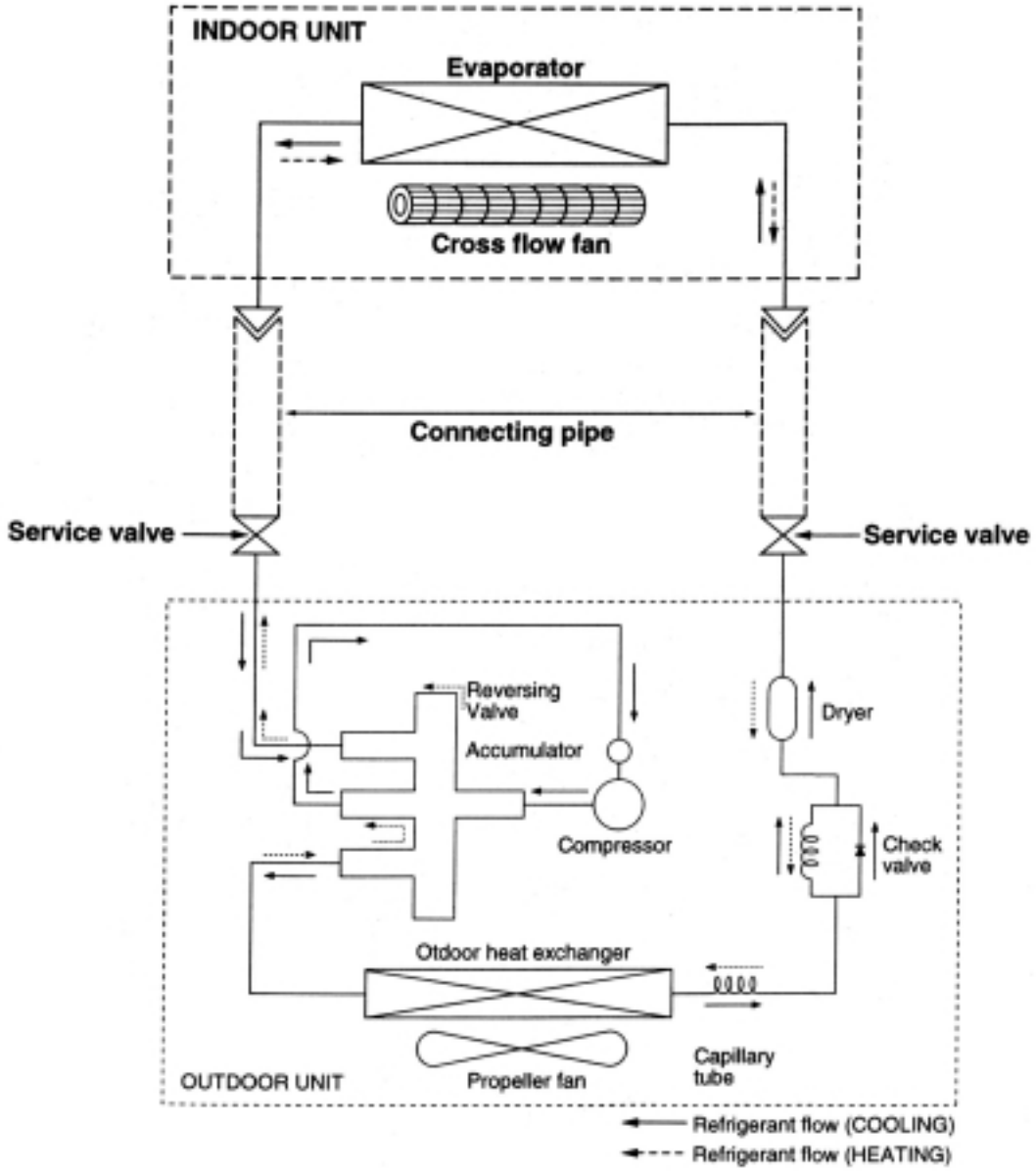
◆DSB-240LH-R

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor	3108003800	220/50/60Hz	1	
	Fan Motor Capacitor	3106902400	2.0uF 400VAC	1	
	Fuse	5FVLB3152L	250V 3.15A	1	
	Transformer	5EPV050120	230V/50Hz	1	
	Stepping Motor	3108007600	GSP-24RW-062	1	
	Terminal Block	3108912320	SN-DBW-4P	1	
Outdoor Unit	Compressor	3100068201	AWG-5530EXC	1	
	Fan Motor	3108001500	220V/60Hz	1	
	Dual Capacitor	3100902500	5/30μF 400VAC	1	
	Terminal Block	3108912320	SN-DBW-4P	1	
	Reversing Valve	3105400310	CHV-0201	1	
	Solenoid coil	3109700110	CHV-01AJ506B1	1	

◆DSA-240LH-R

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor	3108007500	IC-9430DWKF7A	1	
	Fan Motor Capacitor	3106902400	2μF 400VAC	1	
	Fuse	5FVLB3152L	250V 3.15A	1	
	Transformer	5EPV050120	230V/50Hz	1	
	Stepping Motor	3108007600	GSP-24RW-082	1	
	Terminal Block	3108912320	SN-DBW-4P	1	
Outdoor Unit	Compressor	3100068300	AWG5524EXN	1	
	Fan Motor	3108005800	OSME986DERC	1	
	Dual Capacitor	3109504810	5/35μF 400VAC	1	
	Terminal Block	3108912320	SN-DBW-4P	1	
	Reversing Valve	3105400310	CHV-0201	1	
	Solenoid coil	3109700110	CHV-01AJ506B1	1	

5. REFRIGERANT CYCLE



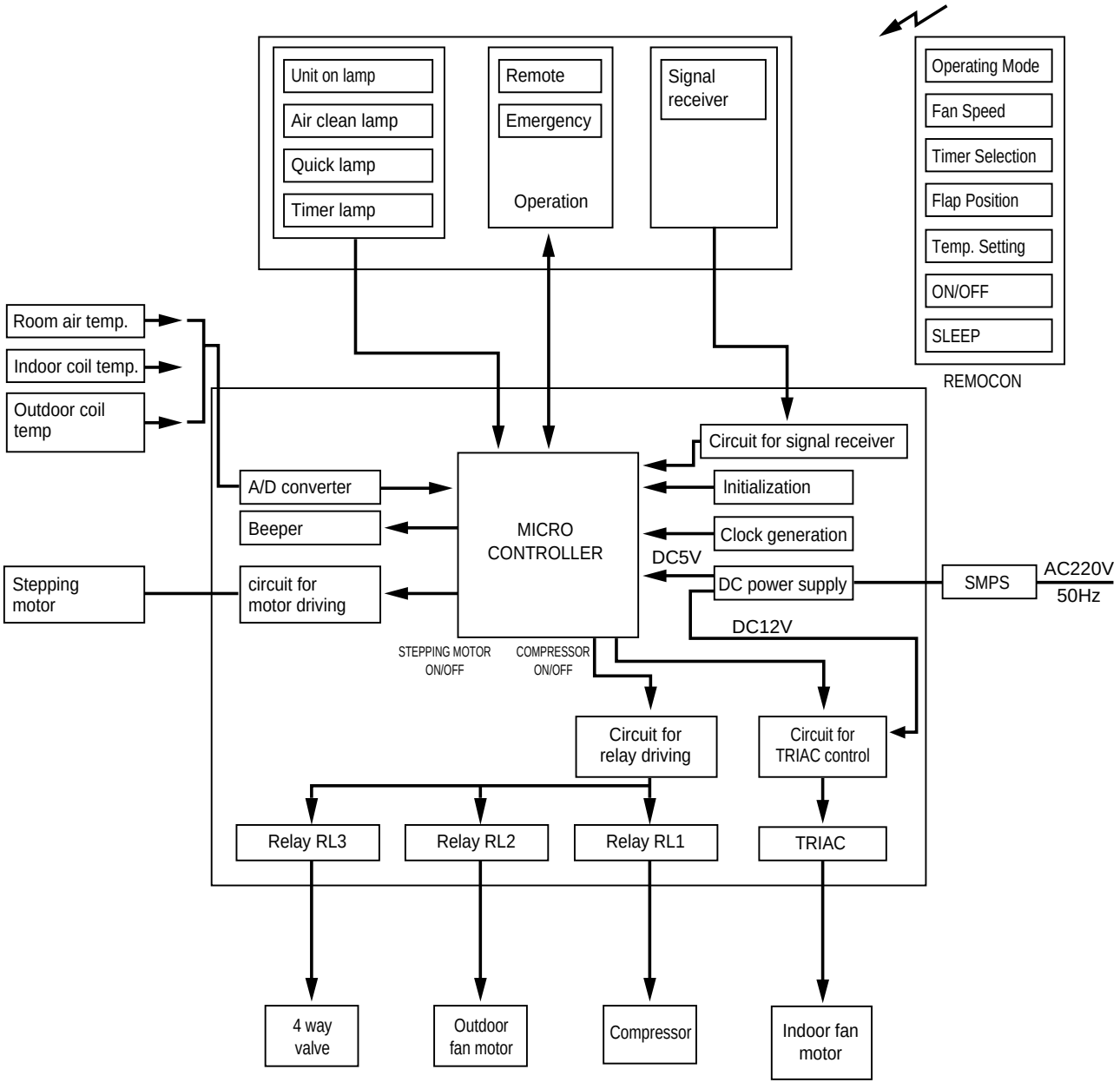
Note) If the pipe length exceeds the standard length, add 30g of refrigerant per extra meter.

Contents \ Model Name		DSB-070LH/071LH	DSB-091LH/092LH	DSB-121LH/122LH	DSB-123LH	DSB-240LH
Capillary Tube	Cool	IDØ1.2 x L700	IDØ1.4 x L900	IDØ1.8 x ODØ3.2 x 500L	IDØ1.8 x L1,200	IDØ2.0 x ODØ3.2 x 600L
	Heat	IDØ1.2 x L700	IDØ1.4 x L900	IDØ1.8 x ODØ3.2 x 900L	IDØ1.8 x L800	IDØ2.0 x ODØ3.2 x 300L
Charge Quantity		850 g	800 g	1,060 g	1,230 g	2,050 g

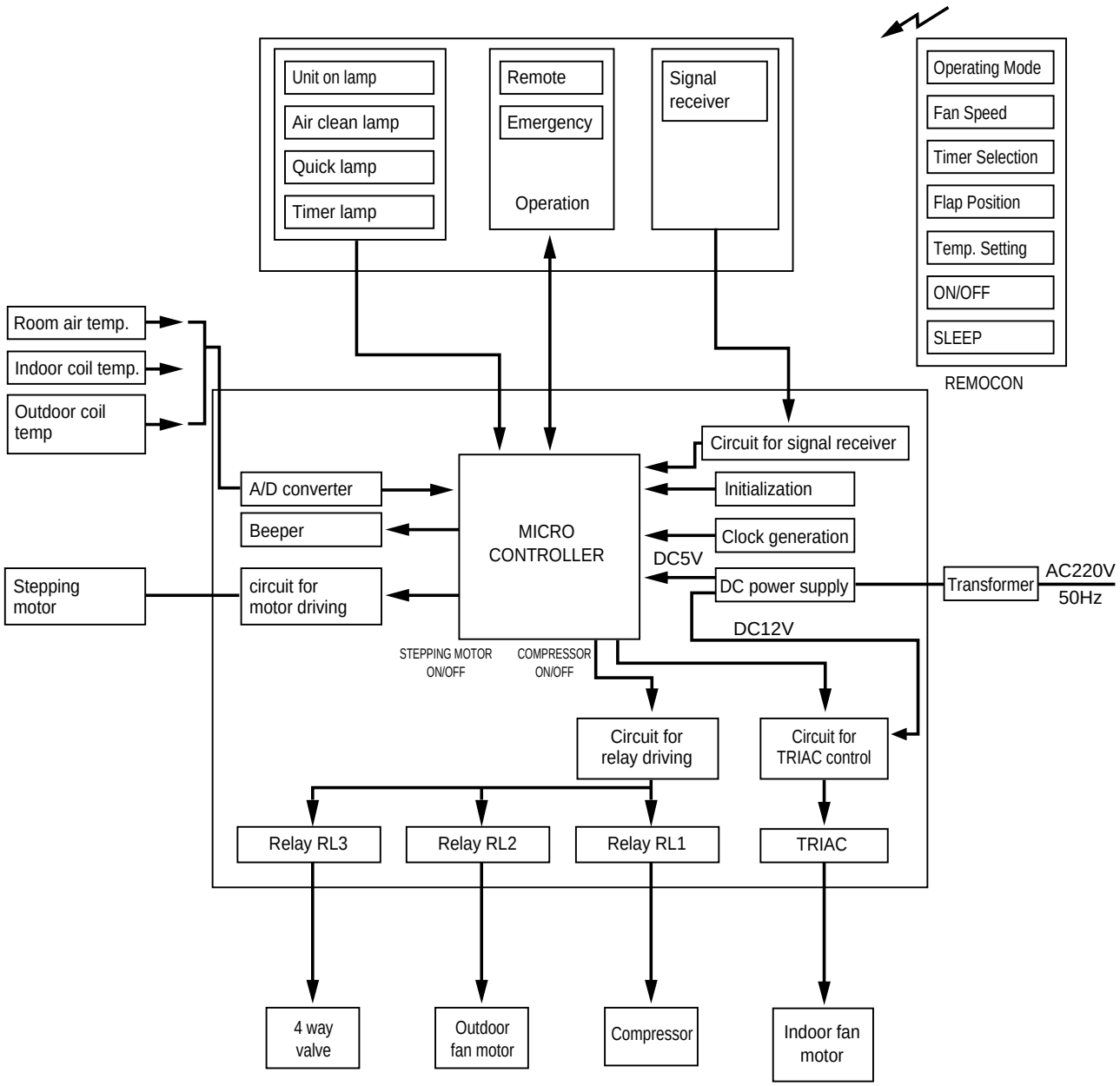
Contents \ Model Name		DSB-182LH	DSB-182LH-R	DSA-183LH-R	DSB-183LH-R	DSA-240LH-R
Capillary Tube	Cool	ID Ø1.8 x L800	ID Ø2.0 x L1,000	ID Ø2.0 x L800	ID Ø2.0 x L1000	ID Ø2.0 x L600
	Heat	ID Ø2.0 x L600	ID Ø2.0 x L600	ID Ø2.0 x L600	ID Ø2.0 x L600	ID Ø2.0 x L300
Charge Quantity		1,480 g	1,550 g	1,500 g	1,600 g	2,100 g

6. CONTROL BLOCK DIAGRAM

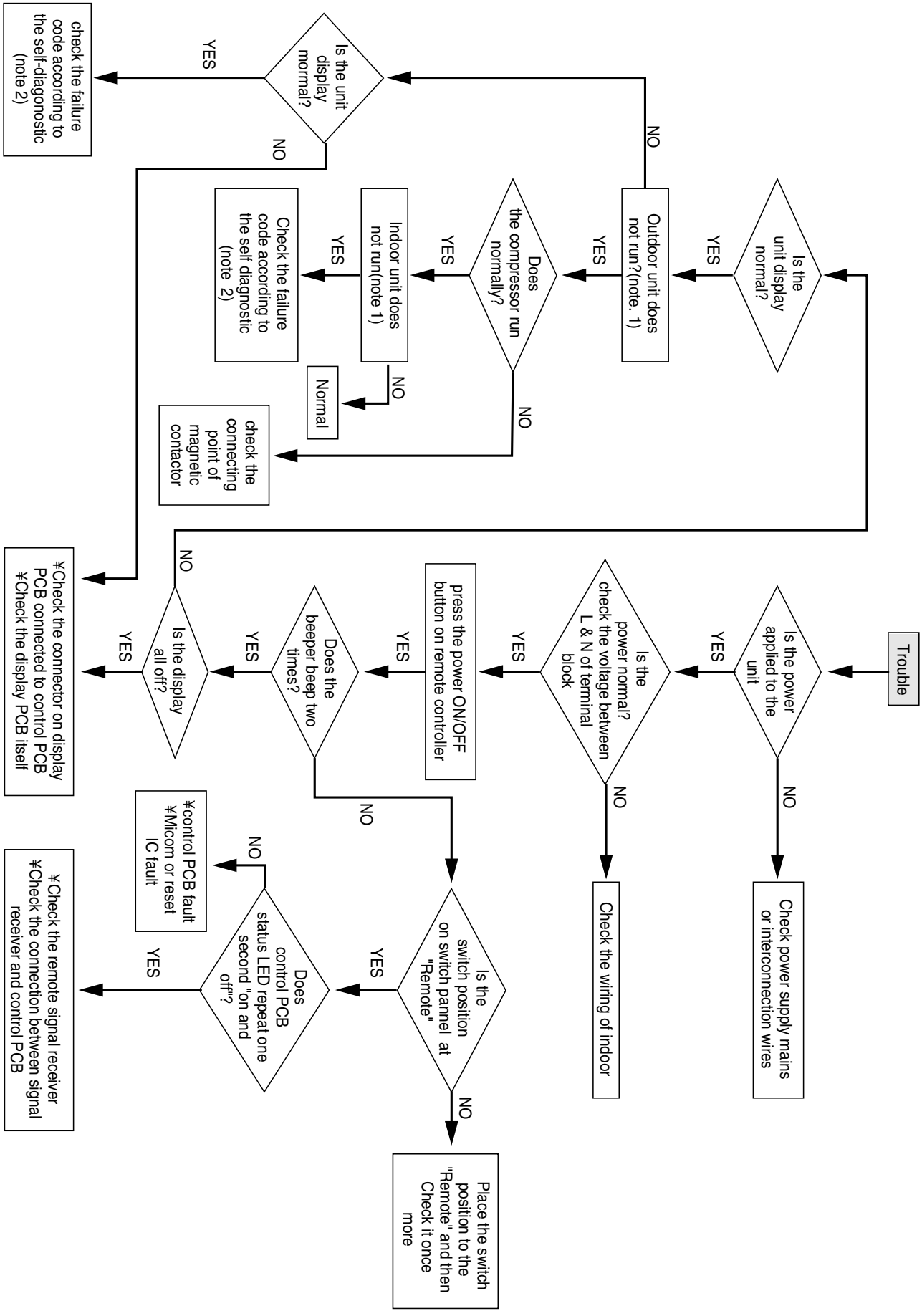
◆DSB-071LH, 092LH, 123LH



◆ DSB-121LH/DSB-122LH/DSB-182LH/182LH-R/ DSB-183LH-R/DSA-183LH-R/DSB-240LH-R/DSA-240LH-R



7. TROUBLE SHOOTING


Trouble
Is the power applied to the unit
NO
Check power supply mains or interconnection wires
YES
Is the power normal? check the voltage between L & N of terminal block
NO
Check the wiring of indoor
YES
press the power ON/OFF button on remote controller
YES
Does the beeper beep two times?
YES
Is the display all off?
YES
¥Check the connector on display PCB connected to control PCB ¥Check the display PCB itself
NO
Is the switch position on switch pannel at "Remote"
NO
Place the switch position to the "Remote" and then Check it once more
YES
Does control PCB status LED repeat one second "on and off"?
YES
¥Check the remote signal receiver ¥Check the connection between signal receiver and control PCB
NO
¥control PCB fault ¥Micom or reset IC fault
NO
Is the unit display normal?
YES
check the failure code according to the self-diagonostic (note 2)
NO
Is the unit display normal?
YES
Outdoor unit does not run?(note. 1)
YES
Does the compressor run normally?
YES
Indoor unit does not run(note 1)
YES
Check the failure code according to the self diagnostic (note 2)
NO
Normal
NO
check the connecting point of magnetic contactor

Note 1)

① Neither indoor unit nor outdoor unit runs.
Check the following points first. (There are following case in normal operation)
a. Is the timer mode set the "timer ON".
b. Is the timer mode set the "timer-OFF" and the time had passed?

② Neither outdoor fan nor compressor runs while indoor fan runs.
Check following points first. (There are following cases in normal operation)
a. Is the temperature set point suitable?
b. Has the 3 minutes time guard for compressor operated?

Self-Diagnostic Function

• Error Code •

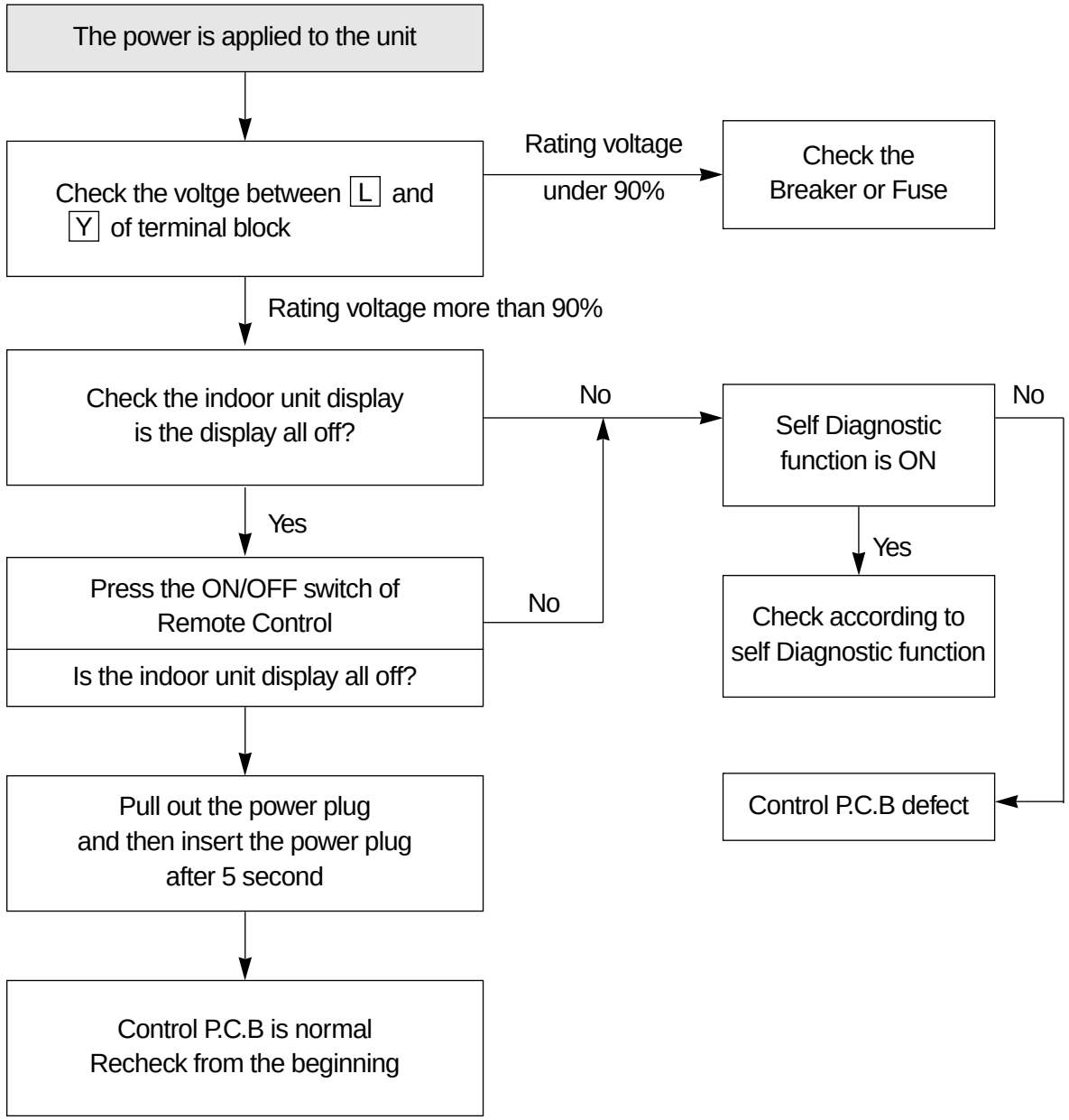
① When the compressor do not run.
i) Check the voltage between L and Y of terminal block.
(Indoor Unit, Outdoor Unit)
ii) Check connecting wire of indoor unit and outdoor unit.
iii) Check relay RL1 on power P.C.B

② Check fixing of indoor coil thermistor.

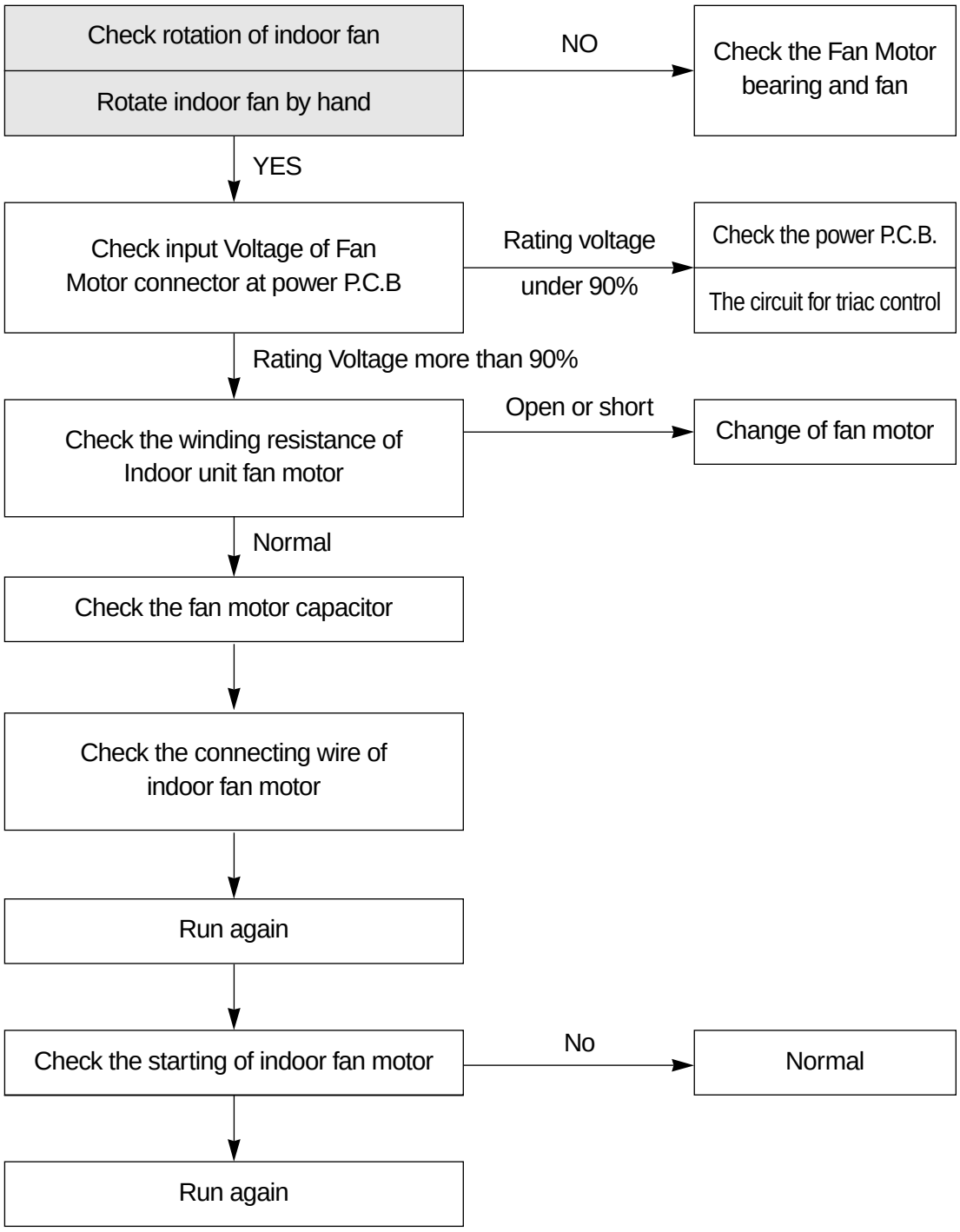
③ Check the GAS LEAKAGE of the pipe.

Neither Indoor Unit nor Outdoor Unit Runs

Confirm following statement.
When the unit operate normally, Sometimes the outdoor unit and indoor unit cannot operate.
① Check the function select switch. Is it timer mode?
② The function select switch locate the sleep mode and is the setting time over?
③ Is the setting mode DEHUMIDIFIER mode?
④ When the unit is DEHUMIDIFIER mode while in the auto mode, the outdoor unit and indoor unit does not run.

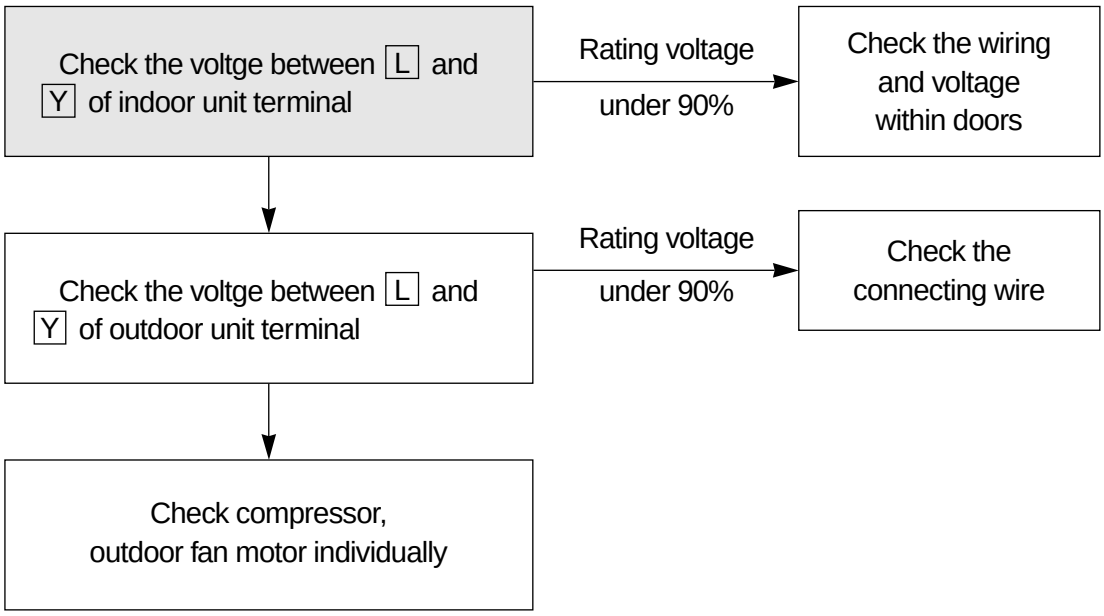

The power is applied to the unit
Check the voltge between L and Y of terminal block
Rating voltage under 90%
Check the Breaker or Fuse
Rating voltage more than 90%
Check the indoor unit display is the display all off?
No
Self Diagnostic function is ON
No
Yes
Check according to self Diagnostic function
Press the ON/OFF switch of Remote Control
Is the indoor unit display all off?
No
Control P.C.B defect
Pull out the power plug and then insert the power plug after 5 second
Control P.C.B is normal Recheck from the beginning

Outdoor Unit Runs but Indoor Fan does Not Run


Check rotation of indoor fan
Rotate indoor fan by hand
NO
Check the Fan Motor bearing and fan
YES
Check input Voltage of Fan Motor connector at power P.C.B
Rating voltage under 90%
Check the power P.C.B.
The circuit for triac control
Rating Voltage more than 90%
Check the winding resistance of Indoor unit fan motor
Open or short
Change of fan motor
Normal
Check the fan motor capacitor
Check the connecting wire of indoor fan motor
Run again
Check the starting of indoor fan motor
No
Normal
Run again

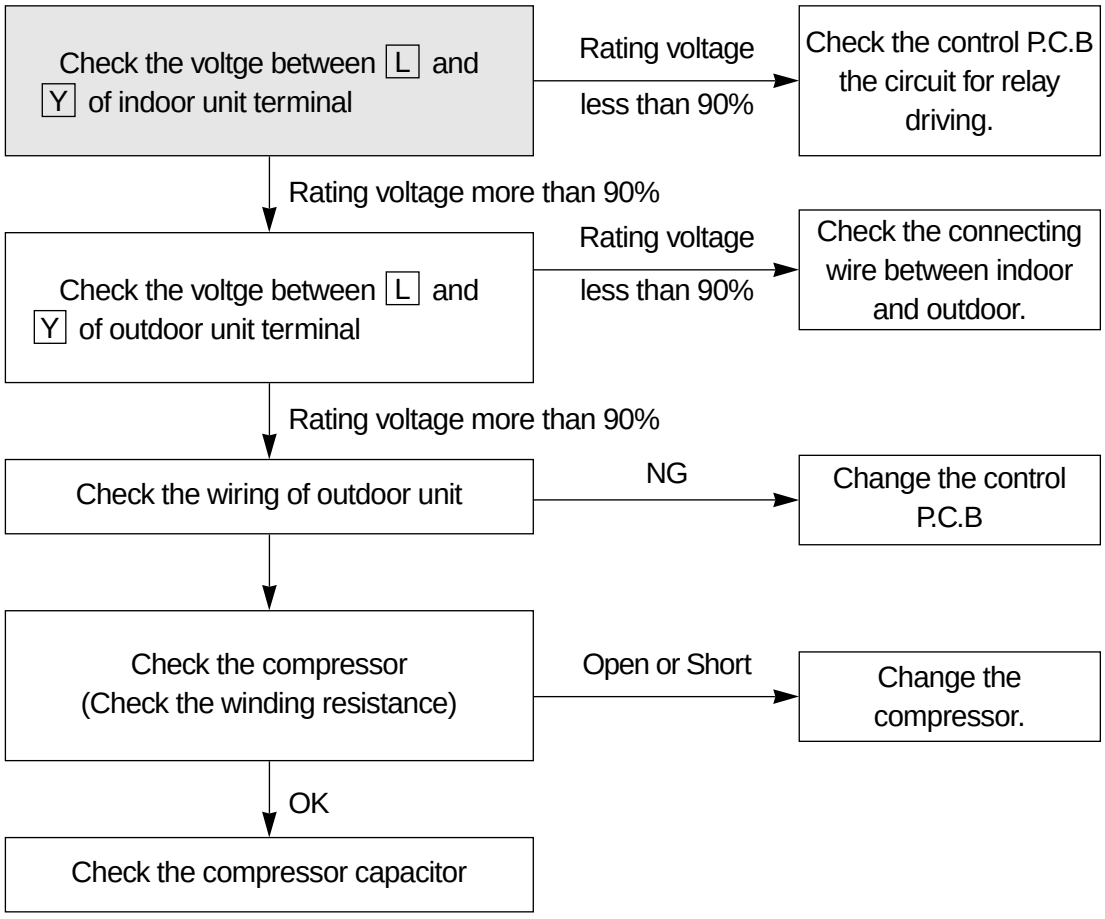
Outdoor Fan and Compressor Do Not Run

Confirm following statement.
When the unit operate normally, Sometimes the outdoor unit and indoor unit cannot operate.
① Is the setting temperature proper?
② Is the unit during 3min. Time delay of compressor.
③ During frost prevention of Indoor unit.
④ During dehumidifier mode.


Check the voltge between L and Y of indoor unit terminal
Rating voltage
under 90%
Check the wiring and voltage within doors
Check the voltge between L and Y of outdoor unit terminal
Rating voltage
under 90%
Check the connecting wire
Check compressor, outdoor fan motor individually

Only Compressor does not Run

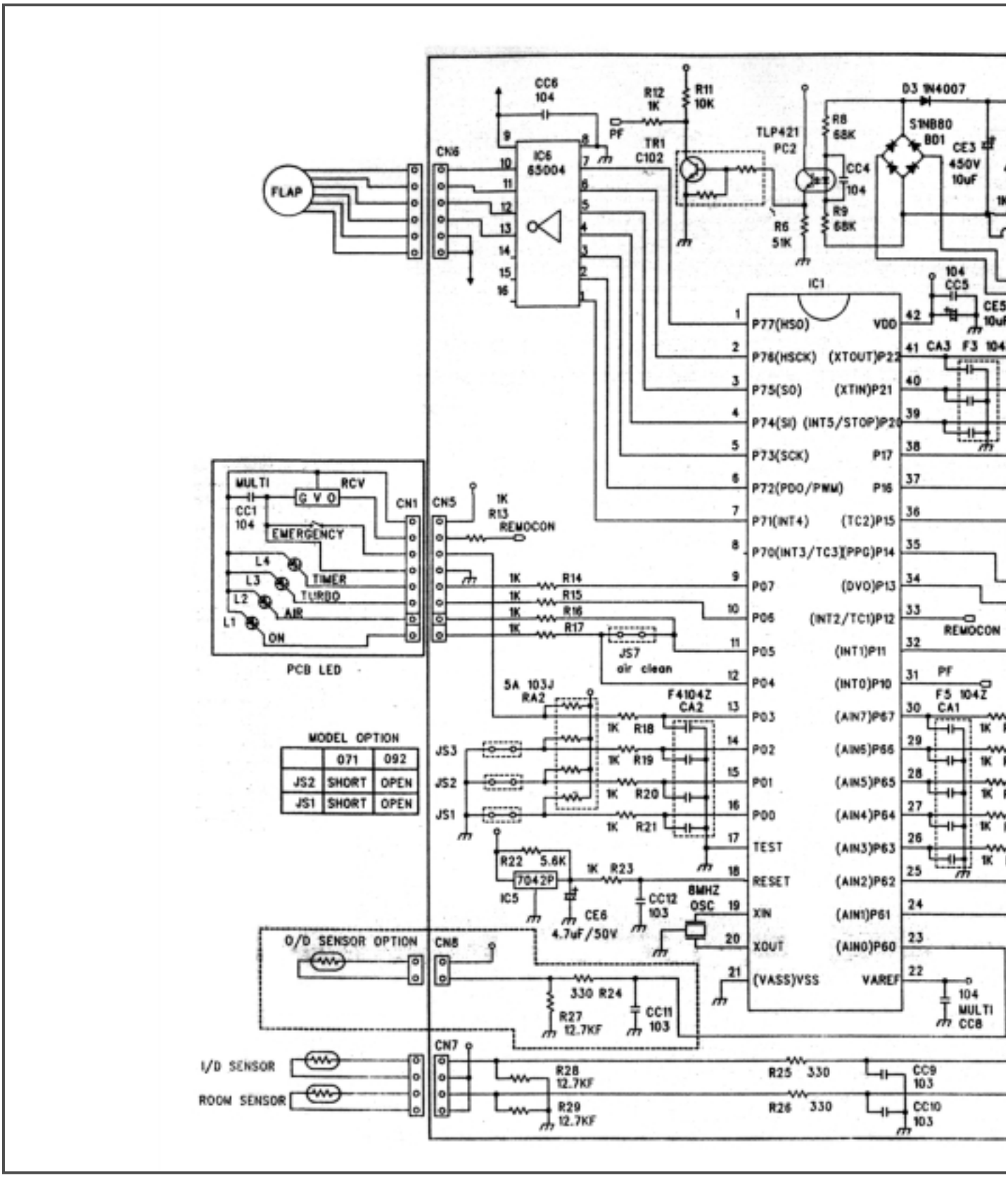
- Check the following at cooling mode

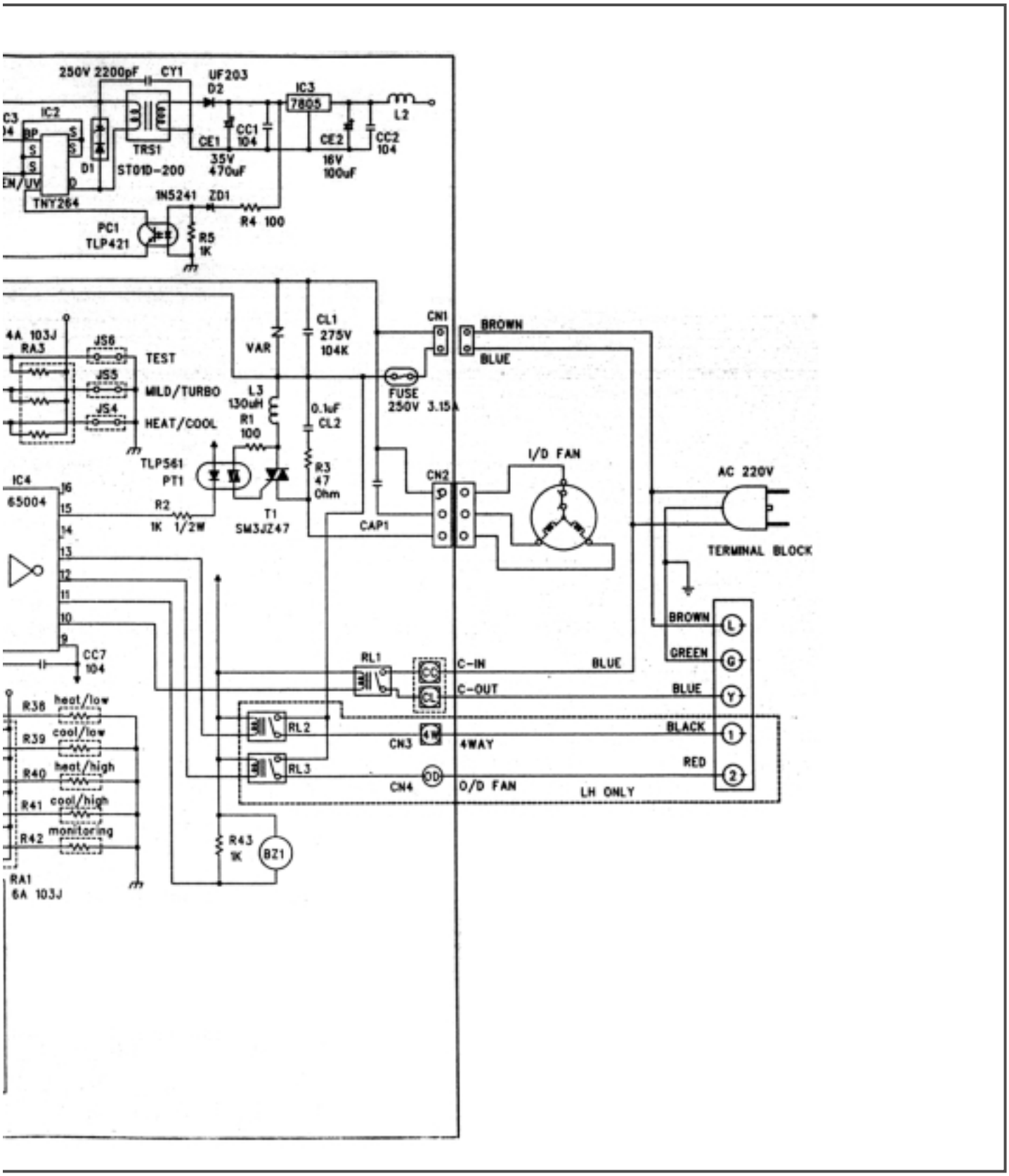

Check the voltge between L and Y of indoor unit terminal
Rating voltage less than 90%
Check the control P.C.B the circuit for relay driving.
Rating voltage more than 90%
Check the voltge between L and Y of outdoor unit terminal
Rating voltage less than 90%
Check the connecting wire between indoor and outdoor.
Rating voltage more than 90%
Check the wiring of outdoor unit
NG
Change the control P.C.B
Check the compressor (Check the winding resistance)
Open or Short
Change the compressor.
OK
Check the compressor capacitor

PCB DRIVING DESCRIPTION

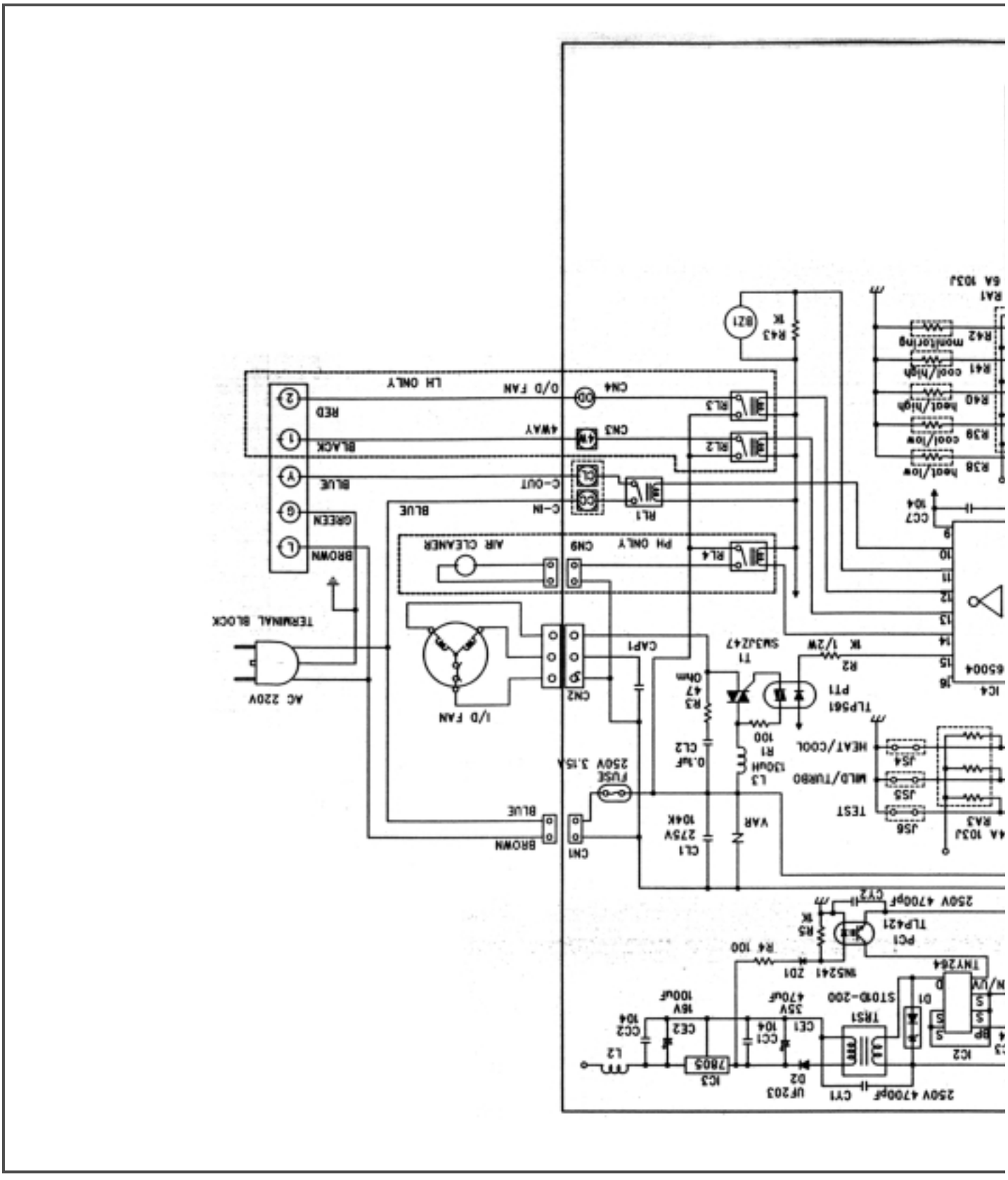
1 PCB CIRCUIT DIAGRAM

◆ DSB-071LH, 092LH




250V 2200pF
CY1
UF203
D2
IC3
7805
L2
IC2
TRS1
D1
ST01D-200
CE1
35V
470uF
CC1
104
CE2
16V
100uF
CC2
104
TNY264
1N5241
ZD1
R4 100
PC1
TLP421
R5
1K
CL1
275V
104K
VAR
CN1
BROWN
BLUE
FUSE
250V 3.15A
JS6
TEST
JS5
MILD/TURBO
JS4
HEAT/COOL
L3
130uH
R1
100
0.1uF
CL2
R3
47
Ohm
TLP561
PT1
T1
SM3JZ47
R2
1K 1/2W
CAP1
CN2
I/D FAN
AC 220V
TERMINAL BLOCK
IC4
65004
CC7
104
RL1
C-IN
C-OUT
BLUE
BLUE
BROWN
GREEN
BLACK
RED
RL2
RL3
CN3
4WAY
CN4
O/D FAN
LH ONLY
R38 heat/low
R39 cool/low
R40 heat/high
R41 cool/high
R42 monitoring
R43
1K
BZ1
RA1
6A 103J
4A 103J
RA3

◆ DSB-123LH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4WAY
CN3
C-OUT
C-IN
BLUE
AIR CLEANER
CN9
PH ONLY
RL1
RL2
RL3
RL4
RED
BLACK
BLUE
GREEN
BROWN
TERMINAL BLOCK
AC 220V
O/D FAN
CN2
CAP1
CN1
FUSE
250V 3.15A
BLUE
BROWN
CL1
275V
104K
VAR
CL2
0.1uF
R1
100
L3
130uH
R3
47
Ohm
T1
SW3J247
R2
1K 1/2W
TLP561
PT1
HEAT/COOL
MLD/TURBO
TEST
JS4
JS5
JS6
R43
1K
BZ1
R42
monitoring
R41
cool/high
R40
heat/high
R39
cool/low
R38
heat/low
RA1
6A 103J
RA3
4A 103J
CC7
104
IC4
6500A
250V 4700pF
CY2
PC1
TLP421
R5
1K
R4 100
ZD1
5W5241
TNY264
ST03D-200
D1
TR51
IC2
250V 4700pF
CY1
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CE1
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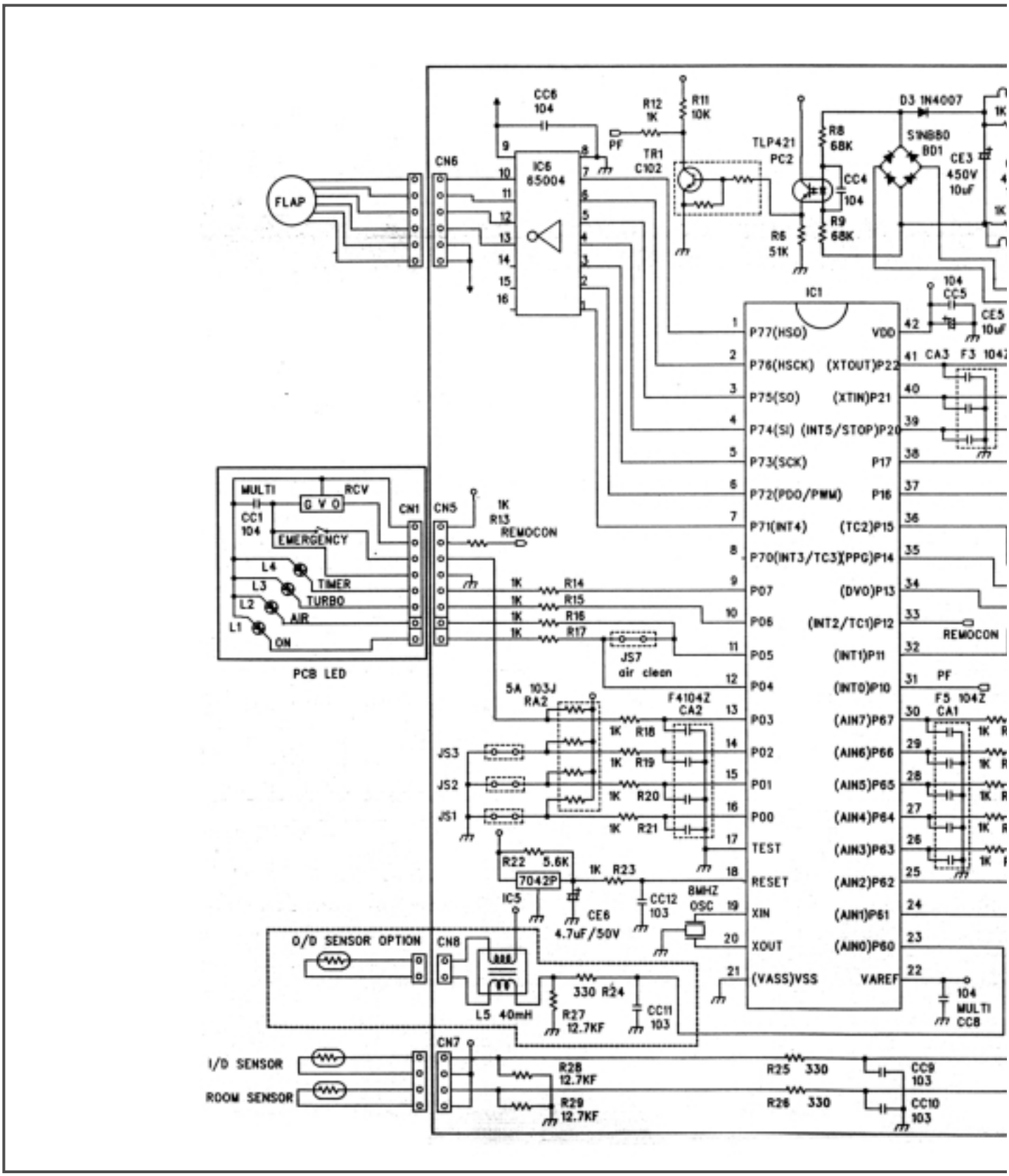
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IC6
6500/4
CC6
104
R12
1K
R11
10K
PF
TR1
C102
TLP421
PC2
R8
68K
R9
68K
R6
51K
CC4
104
D3 1N4007
S1NB80
BD1
CE3
450V
10uF
IC1
CC5
104
CE5
10uF
P77(HSO)
P76(HSCK)
P75(SO)
P74(SI)
P73(SCK)
P72(PDO/PWM)
P71(INT4)
P70(INT3/TC3)(PPG)
P07
P06
P05
P04
P03
P02
P01
P00
TEST
RESET
XIN
XOUT
(VASS)VSS
VDD
(XTOUT)P22
(XTIN)P21
P17
P16
(TC2)P15
(TC1)P12
(INT1)P11
(INT0)P10
(AIN7)P67
(AIN6)P66
(AIN5)P65
(AIN4)P64
(AIN3)P63
(AIN2)P62
(AIN1)P61
(AIN0)P60
VAREF
REMOCON
PF
F5 104Z
CA1
MULTI
RCV
CC1
104
EMERGENCY
L4
TIMER
L3
TURBO
L2
AIR
L1
ON
CN1
PCB LED
CN5
1K
R13
REMOCON
R14
R15
R16
R17
JS7
air clean
5A 103J
RA2
F4104Z
CA2
R18
R19
R20
R21
JS3
JS2
JS1
R22 5.6K
7042P
IC5
1K R23
CC12
103
8MHZ
OSC
CE6
4.7uF/50V
O/D SENSOR OPTION
CN8
L5 40mH
330 R24
R27
12.7KF
CC11
103
CN7
I/D SENSOR
ROOM SENSOR
R28
12.7KF
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CC10
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MULTI
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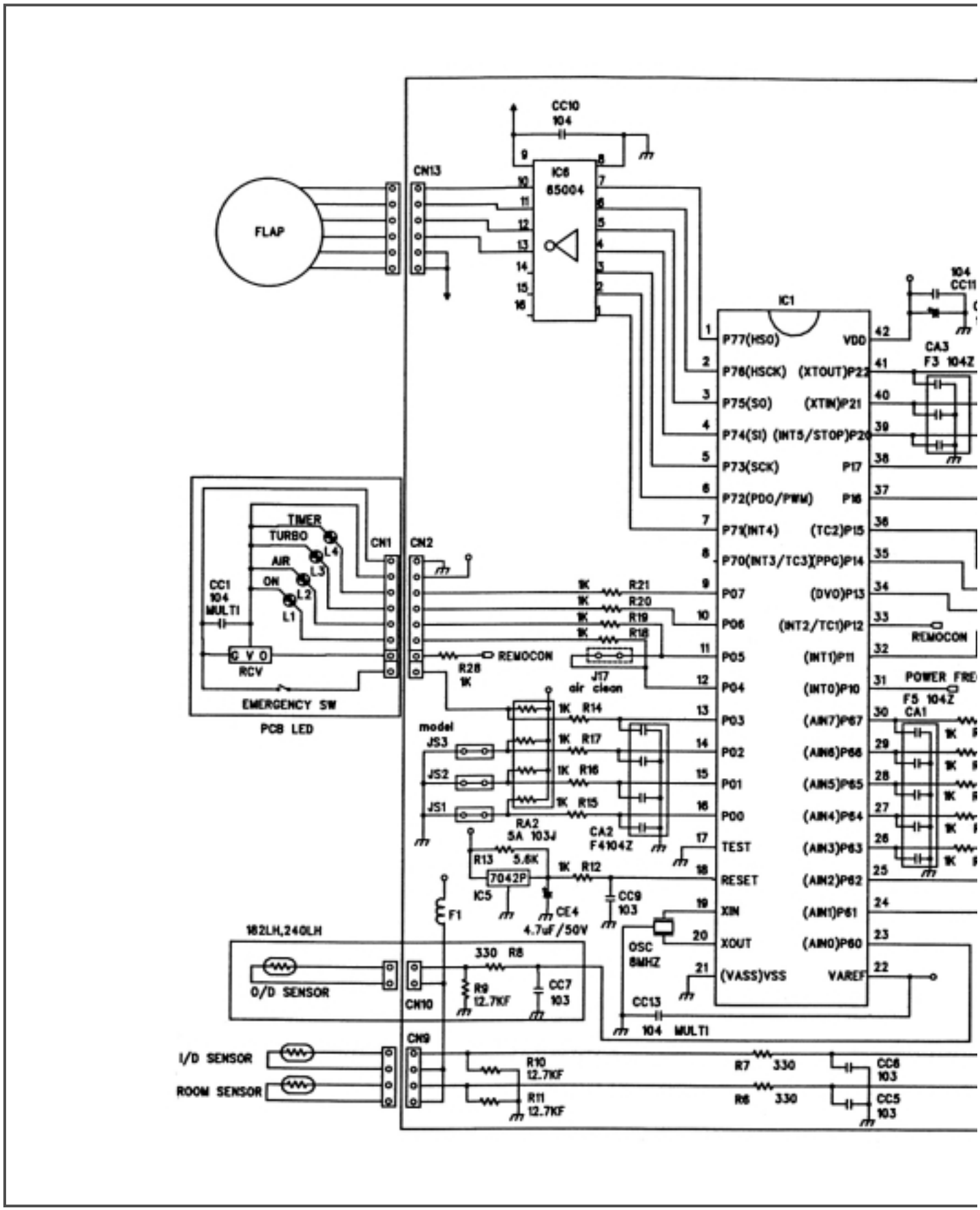
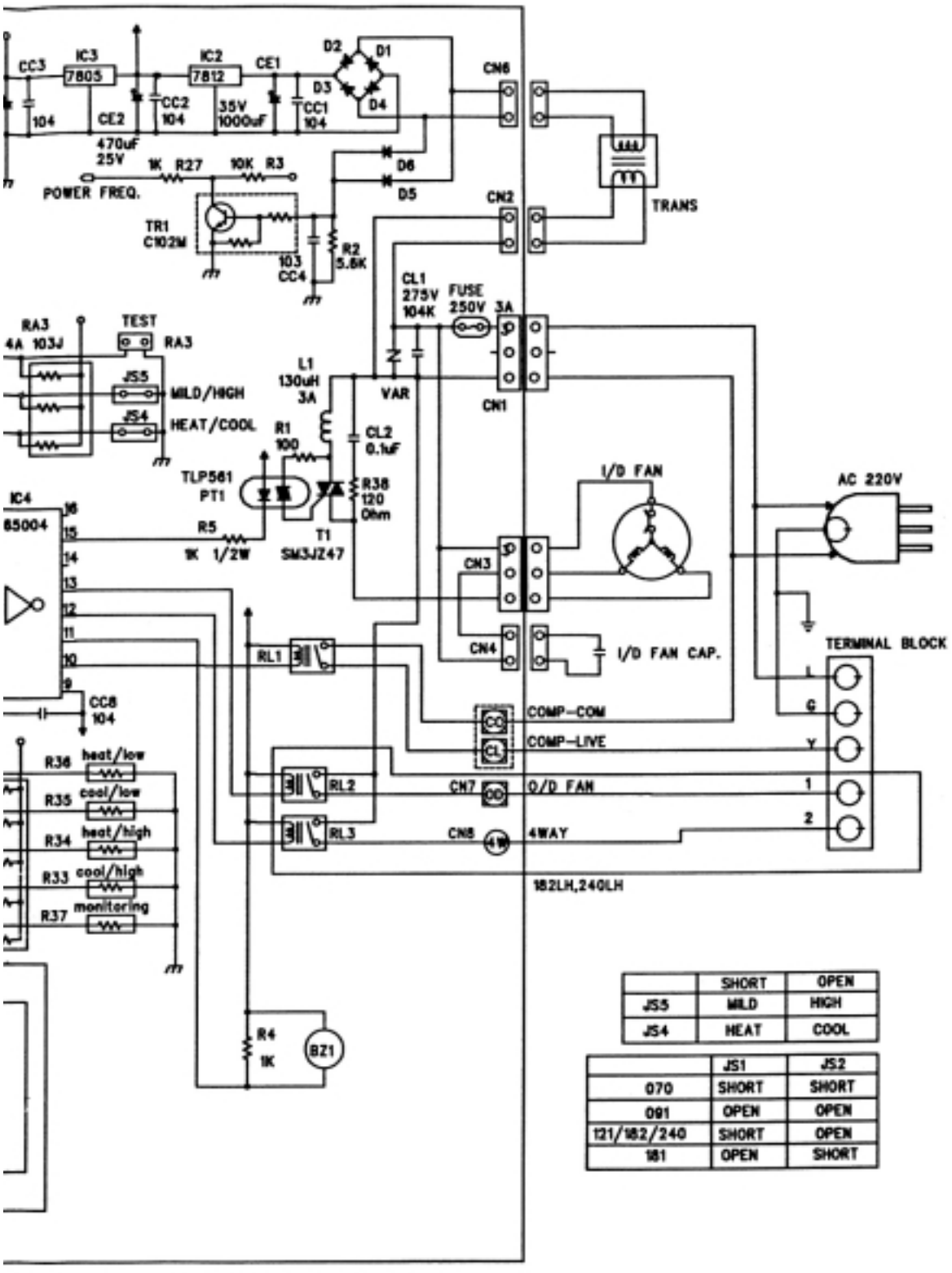
◆DSB-121LH/DSB-122LH

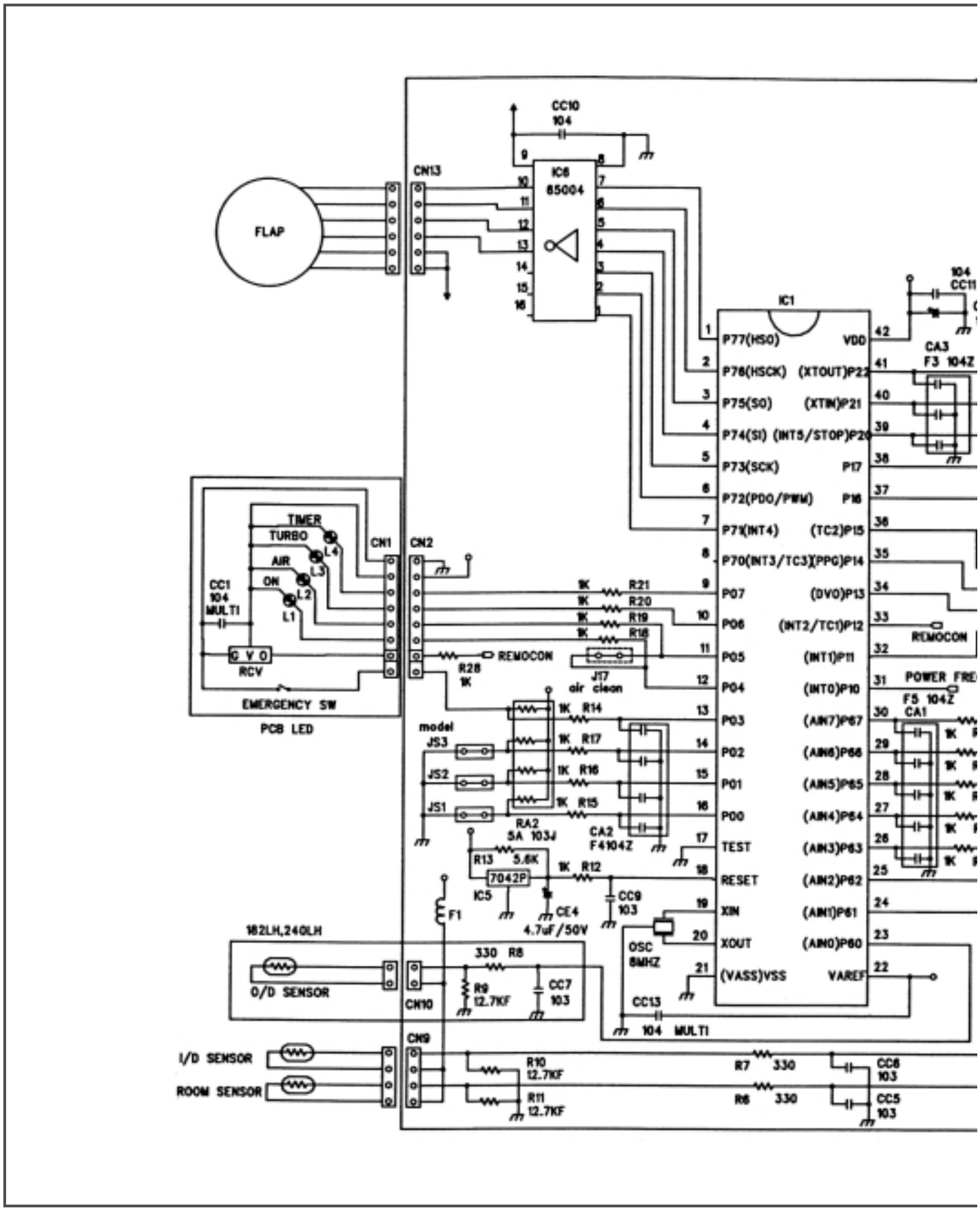


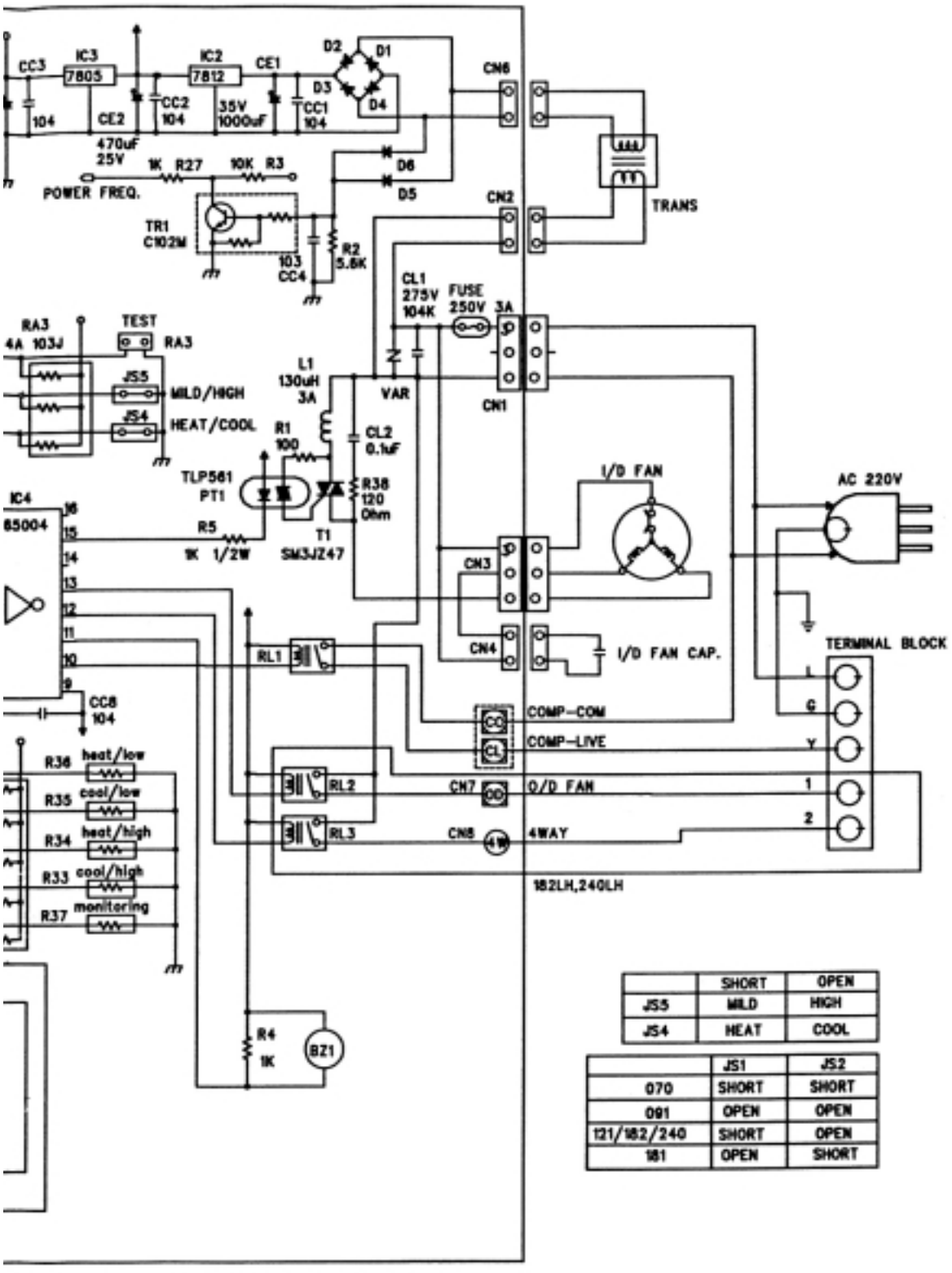


	SHORT	OPEN
JS5	MILD	HIGH
JS4	HEAT	COOL

	JS1	JS2
070	SHORT	SHORT
091	OPEN	OPEN
121/182/240	SHORT	OPEN
181	OPEN	SHORT

◆DSB-182LH/182LH-R/DSB-183LH-R/DSA-183LH-R/DSB-240LH-R/DSA-240LH-R





	SHORT	OPEN
JS5	MILD	HIGH
JS4	HEAT	COOL

	JS1	JS2
070	SHORT	SHORT
091	OPEN	OPEN
121/182/240	SHORT	OPEN
181	OPEN	SHORT

◆DSB-071LH PART LIST (INDOOR UNIT)

PART NAME	SPEC	QTY	LOC.
FUSE	250V 50T 3.15A	1	FUSE
FUSE CLIP	AFC-520	2	FUSE
VARISTOR	15G561K	1	VAR
WAFER	YW396-05AVD	1	CN2
WAFER	YW396-03AVD	1	CN1
WAFER	YW396-03AVD(BL)		CN9
C-CERA	104Z,50VDC	5	CC1,2,5,6,7
C-CERA	103Z,50VDC	6	CC3,4,9,10,11,12
C-MULTI	104Z,CR0561B-Z5U	1	CC8
C-ELEC	470uF 35V SD	1	CE1
C-ELEC	10uF 450V SD	2	CE3,CE4
C-ELEC	100uF 16V SD	1	CE2
C-ELEC	10uF 16V SS	1	CE5
C-ELEC	4.7uF 50V SS	1	CE6
C-ARRAY	F3 104Z	1	CA3
C-ARRAY	F4 104Z	1	CA2
C-ARRAY	F5 104Z	1	CA1
RESISTOR	1/4W-12.7KF	3	R27,28,29
RESISTOR	1/4W-1KJ	21	R5,12,13,14,15,16,17,18,19,20, R21,23,30,31,32,33,34,35,36,37,43
RESISTOR	1/4W-10KJ	1	R11
RESISTOR	1/4W-5.6KJ	1	R22
RESISTOR	1/4W-330J	3	R24,25,26
RESISTOR	1/4W-100J	2	R1,R4
RESISTOR	1/4W-68KJ	2	R8,R9
RESISTOR	1/4W-51KJ	1	R6
RESISTOR	1/4W-2KJ	1	R7
RESISTOR	1/2W-1KJ	1	R2
RESISTOR	1W-47J	1	R3
RESISTOR	1/4W-3.24KF	1	R41
RESISTOR	1/4W-24.9KF	2	R39,42
RESISTOR	1/4W-32.4KF	1	R38
RESISTOR	1/4W-49.9KF	1	R40
RESISTOR ARRAY	4A 103J	1	RA3
RESISTOR ARRAY	5A 103J	1	RA2
RESISTOR ARRAY	6A 103J	1	RA1
PIN	GP881205-2(187)	1	CN4
PIN	GP881206-2(250)		C-IN,C-OUT
C-LINE ACROSS	275V 104K	2	CL1,CL2
WAFER	YFW800-01D	1	CN3
WAFER	SMAW250-06(WHITE)	1	CN6
WAFER	SMAW250-08	1	CN5
WAFER	YMAW250-04	1	CN7
WAFER	YMAW250-02	1	CN8

PART NAME	SPEC	QTY	LOC.
DIODE	1N4007 TAPE	1	D3
DIODE	UF203	1	D2
DIODE ZENOR	1N5241B	1	ZD1
DIODE	ST01D-200	1	D1
C-CERA	2200pF, 250V	1	CY1
CHOKE COIL	1mH, 0.5A	1	L1
FILTER EMI	0.6*10*3TURN	1	L2
BUZZER	BM-20K	1	BZ1
COIL	130uH, 3A	1	L3
IC REGULATOR	KIA7805P	1	IC3
TR	KRC102M	1	TR1
IC RESET	KIA7042P	1	IC5
RELAY	US11-12S	2	RL3,4
RELAY	UKH-12S	1	RL1
SW TRANS	264P,1916	1	TRS1
CAPACITOR	2.0uF,400VAC		CAP1
CAPACITOR	1.5uF,400VAC		CAP1
CAPACITOR	1uF,400VAC	1	CAP1
PCB CONTROL	165.5X140X1.6T		PCB
PCB CONTROL	162.5X140X1.6T	1	PCB
IC SWITCHING	TNY264P	1	IC2
DIODE BRIDGE	S1NB80	1	BD1
TRIAC	SM3JZ47	1	T1
PHOTO COUPLER	TLP560J	1	PT1
IC DRIVE	TD62004AP	2	IC4,IC6
RESONATOR	CST8.00MGW	1	OSC
IC MICOM	TMP87C846AN	1	IC1
PHOTO COUPLER	TLP421	2	PC1,PC2

◆DSB-092LH PART LIST (INDOOR UNIT)

PART NAME	SPEC	QTY	LOC.
FUSE	250V 50T 3.15A	1	FUSE
FUSE CLIP	AFC-520	2	FUSE
VARISTOR	15G561K	1	VAR
WAFER	YW396-05AVD	1	CN2
WAFER	YW396-03AVD	1	CN1
WAFER	YW396-03AVD(BL)		CN9
C-CERA	104Z,50VDC	5	CC1,2,5,6,7
C-CERA	103Z,50VDC	6	CC3,4,9,10,11,12
C-MULTI	104Z,CR0561B-Z5U	1	CC8
C-ELEC	470uF 35V SD	1	CE1
C-ELEC	10uF 450V SD	2	CE3,CE4
C-ELEC	100uF 16V SD	1	CE2
C-ELEC	10uF 16V SS	1	CE5
C-ELEC	4.7uF 50V SS	1	CE6
C-ARRAY	F3 104Z	1	CA3
C-ARRAY	F4 104Z	1	CA2
C-ARRAY	F5 104Z	1	CA1
RESISTOR	1/4W-12.7KF	3	R27,28,29
RESISTOR	1/4W-1KJ	21	R5,12,13,14,15,16,17,18,19,20, R21,23,30,31,32,33,34,35,36,37,43
RESISTOR	1/4W-10KJ	1	R11
RESISTOR	1/4W-5.6KJ	1	R22
RESISTOR	1/4W-330J	3	R24,25,26
RESISTOR	1/4W-100J	2	R1,R4
RESISTOR	1/4W-68KJ	2	R8,R9
RESISTOR	1/4W-51KJ	1	R6
RESISTOR	1/4W-2KJ	1	R7
RESISTOR	1/2W-1KJ	1	R2
RESISTOR	1W-47J	1	R3
RESISTOR	1/4W-3.24KF	1	R41
RESISTOR	1/4W-12.4KF	1	R40
RESISTOR	1/4W-15.0KF	1	R38
RESISTOR	1/4W-24.9KF	2	R39,42
RESISTOR ARRAY	4A 103J	1	RA3
RESISTOR ARRAY	5A 103J	1	RA2
RESISTOR ARRAY	6A 103J	1	RA1
PIN	GP881205-2(187)	1	CN4
PIN	GP881206-2(250)		C-IN,C-OUT
C-LINE ACROSS	275V 104K	2	CL1,CL2
WAFER	YFW800-01D	1	CN3
WAFER	SMAW250-06(WHITE)	1	CN6
WAFER	SMAW250-08	1	CN5
WAFER	YMAW250-04	1	CN7
WAFER	YMAW250-02	1	CN8

PART NAME	SPEC	QTY	LOC.
DIODE	1N4007 TAPE	1	D3
DIODE	UF203	1	D2
DIODE ZENOR	1N5241B	1	ZD1
DIODE	ST01D-200	1	D1
C-CERA	2200pF, 250V	1	CY1
CHOKE COIL	1mH, 0.5A	1	L1
FILTER EMI	0.6*10*3TURN	1	L2
BUZZER	BM-20K	1	BZ1
COIL	130uH, 3A	1	L3
IC REGULATOR	KIA7805P	1	IC3
TR	KRC102M	1	TR1
IC RESET	KIA7042P	1	IC5
RELAY	US11-12S	2	RL3,4
RELAY	UKH-12S	1	RL1
SW TRANS	264P,1916	1	TRS1
CAPACITOR	2.0uF,400VAC		CAP1
CAPACITOR	1.5uF,400VAC		CAP1
CAPACITOR	1uF,400VAC	1	CAP1
PCB CONTROL	165.5X140X1.6T		PCB
PCB CONTROL	162.5X140X1.6T	1	PCB
IC SWITCHING	TNY264P	1	IC2
DIODE BRIDGE	S1NB80	1	BD1
TRIAC	SM3JZ47	1	T1
PHOTO COUPLER	TLP560J	1	PT1
IC DRIVE	TD62004AP	2	IC4,IC6
RESONATOR	CST8.00MGW	1	OSC
IC MICOM	TMP87C846AN	1	IC1
PHOTO COUPLER	TLP421	2	PC1,PC2

◆DSB-123LH PART LIST (INDOOR UNIT)

PART NAME	SPEC	QTY	LOC.
FUSE	250V 50T 3.15A	1	FUSE
FUSE CLIP	AFC-520	2	FUSE
VARISTOR	15G561K	1	VAR
WAFER	YW396-05AVD	1	CN2
WAFER	YW396-03AVD	1	CN1
C-CERA	104Z,50VDC	5	CC1,2,5,6,7
C-CERA	103Z,50VDC	6	CC3,4,9,10,11,12
C-MULTI	104Z,CR0561B-Z5U	1	CC8
C-ELEC	470uF 35V SD	1	CE1
C-ELEC	10uF 450V SD	2	CE3,CE4
C-ELEC	100uF 16V SD	1	CE2
C-ELEC	10uF 16V SS	1	CE5
C-ELEC	4.7uF 50V SS	1	CE6
C-ARRAY	F3 104Z	1	CA3
C-ARRAY	F4 104Z	1	CA2
C-ARRAY	F5 104Z	1	CA1
RESISTOR	1/4W-12.7KF	3	R27,28,29
RESISTOR	1/4W-1KJ	22	R5,12,13,14,15,16,17,18,19,20,21, R23,30,31,32,33,34,35,36,37,43,44
RESISTOR	1/4W-10KJ	1	R11
RESISTOR	1/4W-5.6KJ	1	R22
RESISTOR	1/4W-330J	3	R24,25,26
RESISTOR	1/4W-100J	2	R1,R4
RESISTOR	1/4W-68KJ	2	R8,R9
RESISTOR	1/4W-51KJ	1	R6
RESISTOR	1/4W-2KJ	1	R7
RESISTOR	1/2W-1KJ	1	R2
RESISTOR	1W-47J	1	R3
RESISTOR	1/4W-8.45KF	2	R41,40
RESISTOR	1/4W-11.1KF	2	R39,38
RESISTOR	1/4W-12.4KF	1	R42
RESISTOR ARRAY	4A 103J	1	RA3
RESISTOR ARRAY	5A 103J	1	RA2
RESISTOR ARRAY	6A 103J	1	RA1
PIN	GP881205-2(187)	1	CN4
C-LINE ACROSS	275V 104K	2	CL1,CL2
WAFER	YFW800-01D	1	CN3
WAFER	SMAW250-06(WHITE)	1	CN6
WAFER	SMAW250-08	1	CN5
WAFER	YMAW250-04	1	CN7
WAFER	YMAW250-02	1	CN8

PART NAME	SPEC	QTY	LOC.
DIODE	1N4007 TAPE	1	D3
DIODE	UF203	1	D2
DIODE ZENOR	1N5241B	1	ZD1
DIODE	ST01D-200	1	D1
C-CERA	4700pF, 250V	2	CY1,CY2
CHOKE COIL	1mH, 0.5A	2	L1,L2,L4
BUZZER	BM-20K	1	BZ1
COIL	130uH, 3A	1	L3
COIL	UU,40mH	1	L5
IC REGULATOR	KIA7805P	1	IC3
TR	KRC102M	1	TR1
IC RESET	KIA7042P	1	IC5
RELAY	US11-12S	2	RL3,4
RELAY	UKH-12S	1	RL1
SW TRANS	264P,1916	1	TRS1
CAPACITOR	1.5uF,400VAC	1	CAP1
PCB CONTROL	165.5X140X1.6T	1	
IC SWITCHING	TNY264P	1	IC2
DIODE BRIDGE	S1NB80	1	BD1
TRIAC	SM3JZ47	1	T1
PHOTO COUPLER	TLP560J	1	PT1
IC DRIVE	TD62004AP	2	IC4,IC6
RESONATOR	CST8.00MGW	1	OSC
IC MICOM	TMP87C846AN	1	IC1
PHOTO COUPLER	TLP421	2	PC1,PC2

◆ DSB-182LH/182LH-R/DSB-183LH-R/DSA-183LH-R/DSB-240LH-R/DSA-240LH-R PART LIST(INDOOR UNIT)

No	PART CODE	PART NAME	SPEC	Q'TY	UNIT	REMARK
BZ1	3105698200	BUZZER	DP-2520BA	1	EA	
CA1	CN5XD104M-	C-ARRAY	F5 104Z	1	EA	
CA2	CN4XD104M-	C-ARRAY	F4 104Z	1	EA	
CA3	CN3XD104M-	C-ARRAY	F3 104Z	1	EA	
CC	3108803500	PIN	GP881206-2(250)	1	EA	
CC1	CCXE1E104M	C-CERA	104Z 25VDC	1	EA	
CC10	CCXE1E104M	C-CERA	104Z 25VDC	1	EA	
CC11	CCXE1E104M	C-CERA	104Z 25VDC	1	EA	
CC13	CDXE1H104M	C-MULTI	CR501B-Z5U,104Z,50V	1	EA	
CC2	CCXE1E104M	C-CERA	104Z 25VDC	1	EA	
CC3	CCXE1E104M	C-CERA	104Z 25VDC	1	EA	
CC4	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	
CC5	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	
CC6	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	
CC7	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	070LH,091LH,240LH-R
CC8	CCXE1E104M	C-CERA	104Z 25VDC	1	EA	
CC9	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	
CE1	CEXE1V108C	C-ELEC	1000MF 35V SD	1	EA	
CE2	CEXE1E477C	C-ELEC	470MF 25V SD	1	EA	
CE3	CEXE1C107C	C-ELEC	100MF 16V SD	1	EA	070LH,091LH,240LH-R
CE4	CEXE1C475A	C-ELEC	4.7MF 50V SS	1	EA	
CE5	CEXE1C106A	C-ELEC	10MF 16V SS	1	EA	
CL	3108803500	PIN	GP881206-2(250)	1	EA	
CL1	CLV-B3104M	C-LINE ACROSS	275V 104K(PILKOR)	1	EA	
CL2	CLV-B3104M	C-LINE ACROSS	275V 104K(PILKOR)	1	EA	
CLIP	3107000600	FUSE CLIP	AFC-520	2	EA	
CN1	3108803900	WAFER	YW396-05AV(RED)	1	EA	
CN10	3108801100	WAFER	5267-02A	1	EA	070LH,091LH,240LH-R
CN11	3108804000	WAFER	SMAW250-08	1	EA	
CN13	3108802000	WAFER	SMW250-06(WHITE)	1	EA	
CN2	3108803800	WAFER	YFW800-02	1	EA	
CN3	3108802900	WAFER	YW396-05AV	1	EA	
CN4	3108802500	WAFER	YW396-03AV	1	EA	
CN6	3108800320	WAFER	5281-02A	1	EA	
CN7	3108803400	PIN	GP881205-2(187)	1	EA	
CN8	3108803600	WAFER	YFW800-01	1	EA	
CN9	3108804500	WAFER	5267-04A	1	EA	
D1	DZN4004A--	DIODE	KN4004A AUTO 52MM	1	EA	
D2	DZN4004A--	DIODE	KN4004A AUTO 52MM	1	EA	
D3	DZN4004A--	DIODE	KN4004A AUTO 52MM	1	EA	
D4	DZN4004A--	DIODE	KN4004A AUTO 52MM	1	EA	
D5	DZN4004A--	DIODE	KN4004A AUTO 52MM	1	EA	
D6	DZN4004A--	DIODE	KN4004A AUTO 52MM	1	EA	
FUSE	5FVLB3152L	FUSE GLASS TUBE	250V/50T 3.15A	1	EA	
HS1	3105797200	HEAT SHINK	22(H)*23*17	1	EA	
IC1	13GS1H13--	IC MICOM	TMP87C846-1H13	1	EA	
IC2	1KA7812AP-	IC REGULATOR	KIA 7812AP	1	EA	
IC3	1KA7805AP-	IC REGULATOR	KIA 7805AP TO-220IS	1	EA	
IC4	1KD65004AP	IC DRIVER	KID65004AP	1	EA	

No	PART CODE	PART NAME	SPEC	Q'TY	UNIT	REMARK
IC5	1KA7042P--	IC RESET	KIA7042P 5L	1	EA	
IC6	1KD65004AP	IC DRIVER	KID65004AP	1	EA	
L1	52C1374001	COIL	130UH 3A	1	EA	
OSC	4850103610	RESONATOR	CST8.00MTW,8MHZ	1	EA	
PCB	3104398102	PCB CONTROL	160.5*140*1.6T.1(42)	1	EA	
PT1	1TLP560J--	IC PHOTO COUPLER	TLP 560J	1	EA	
R-OPT	3104810000	RESISTOR OPTION	NOTE OPTION TABLE	1	ST	
R1	RD-4K101J-	R CARBON FILM	1/4 100 OHM J	1	EA	
R10	RN-4K1272F	R METAL FILM	1/4 12.7K OHM F	1	EA	
R11	RN-4K1272F	R METAL FILM	1/4 12.7K OHM F	1	EA	
R12	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R13	RD-4K562J-	R CARBON FILM	1/4 5.6K OHM J	1	EA	
R14	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R15	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R16	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R17	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R18	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R19	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R2	RD-4K562J-	R CARBON FILM	1/4 5.6K OHM J	1	EA	
R20	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R21	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R23	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R24	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R25	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R26	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R27	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R28	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R29	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R3	RD-4K103J-	R CARBON FILM	1/4 10K OHM J	1	EA	
R30	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R31	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R32	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R38	RS01F121J-	R M-OXIDE FILM	1W 120 OHM J	1	EA	
R4	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R5	RD-2K102J-	RESISTOR	1/2W - 1K	1	EA	
R6	RD-4K331J-	R CARBON FILM	1/4 330 OHM J	1	EA	
R7	RD-4K331J-	R CARBON FILM	1/4 330 OHM J	1	EA	
R8	RD-4K331J-	R CARBON FILM	1/4 330 OHM J	1	EA	070LH,091LH,240LH-R
R9	RN-4K1272F	R METAL FILM	1/4 12.7K OHM F	1	EA	070LH,091LH,240LH-R
RA1	RA8K5103J-	RESISTOR ARRAY	6A 103J	1	EA	
RA2	RA8K4103J-	RESISTOR ARRAY	5A 103J	1	EA	
RA3	RA8K3103J-	RESISTOR ARRAY	4A 103J	1	EA	
RL1	5SC0101220	RELAY	UKH-12SP	1	EA	
RL1	5SC0101128	RELAY	CS11-12SH 1C 1P	1	EA	240L-R/LH-R
RL2	5SC0101128	SW RELAY	CS11-12SH 1C 1P	1	EA	
RL3	5SC0101128	SW RELAY	CS11-12SH 1C 1P	1	EA	
SCRW	7122401211	SCREW TAPPING	T2S TRS 4*12 MFZN	1	EA	
T1	TSM3JZ47--	TRIAC	SM3JZ47	1	EA	
TEST	3108804300	WAFER	YF254S-02	1	EA	
TR1	TKRC102M--	TR	KRC 102-M (TAPPING)	1	EA	
VAR	D15G561K--	VARISTOR	15G561K/350V	1	EA	
WSHR	3106002900	WASHER	3*6	1	EA	

◆ CONTROL PCB ASS`Y (MODEL : 082M/H,102M/H,122M/H,151L,122L/LH,182L/L-R,182LH/LH-R)

No	PART CODE	PART NAME	SPEC	Q'TY	UNIT	REMARK
CA1	CN4XD104M-	C-ARRAY	F4 104Z	1	EA	
CA2	CN3XD104M-	C-ARRAY	F3 104Z	1	EA	
CC1	CCXE1E104M	C-CERA	104Z 25VDC	1	EA	
CC10	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	122LH,182LH/LH-R
CC13	CDXE1H104M	C-MULTI	CR501B-Z5U,104Z,50V	1	EA	
CC2	CCXE1E104M	C-CERA	104Z 25VDC	1	EA	
CC3	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	
CC4	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	
CC5	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	
CC6	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	
CC7	CCXE1E104M	C-CERA	104Z 25VDC	1	EA	
CC8	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	
CC9	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	
CE1	CEXE1C475A	C-ELEC	4.7MF 50V SS	1	EA	
CE2	CEXE1C106A	C-ELEC	10MF 16V SS	1	EA	
CN1	3108802400	WAFER	SMAW250-10	1	EA	
CN2	3108804100	WAFER	SMW250-07	1	EA	
CN3	3108804200	WAFER	SMW250-02	1	EA	
CN4	3108802010	WAFER	SMW250-06(RED)	1	EA	182L/L-R, 182LH/LH-R
CN5	3108802000	WAFER	SMW250-06(WHITE)	1	EA	
CN6	3108802000	WAFER	SMW250-06(WHITE)	1	EA	182L/L-R, 182LH/LH-R
CN7	3108801100	WAFER	5267-02A	1	EA	122LH,182LH/LH-R
CN8	3108804500	WAFER	5267-04A	1	EA	
D1	DZN4148FTB	DIODE	1N4148 AUTO 26MM	1	EA	182L/L-R, 182LH/LH-R
F1	52F6010100	FILTER EMI	0.6*10*3TUTN	1	EA	182LH/LH-R
IC1	13GS1H13--	IC MICOM	TMP87C846-1H13	1	EA	
IC2	1KA7042P--	IC RESET	KIA7042P 5L	1	EA	
IC3	1KD65004AP	IC DRIVER	KID65004AP	1	EA	
IC4	1KD65004AP	IC DRIVER	KID65004AP	1	EA	
OSC1	4850103610	RESONATOR	CST8.00MTW,8MHZ	1	EA	
PCB	3104397162	PCB CONTROL	110*90.5*1.6T(99)	1	EA	
R-OPT	3104810000	RESISTOR OPTION	NOTE OPTION TABLE	1	ST	
R1	RD-4K103J-	R CARBON FILM	1/4 10K OHM J	1	EA	
R10	RD-4K562J-	R CARBON FILM	1/4 5.6K OHM J	1	EA	
R11	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R12	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R13	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R14	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R16	RD-4K103J-	R CARBON FILM	1/4 10K OHM J	1	EA	
R17	RD-4K103J-	R CARBON FILM	1/4 10K OHM J	1	EA	182L/L-R, 182LH/LH-R
R18	RN-4K1272F	R METAL FILM	1/4 12.7K OHM F	1	EA	
R19	RD-4K331J-	R CARBON FILM	1/4 330 OHM J	1	EA	

No	PART CODE	PART NAME	SPEC	Q'TY	UNIT	REMARK
R2	RD-4K103J-	R CARBON FILM	1/4 10K OHM J	1	EA	
R20	RN-4K1272F	R METAL FILM	1/4 12.7K OHM F	1	EA	
R21	RD-4K331J-	R CARBON FILM	1/4 330 OHM J	1	EA	
R22	RN-4K1272F	R METAL FILM	1/4 12.7K OHM F	1	EA	122LH,182LH/LH-R
R23	RD-4K331J-	R CARBON FILM	1/4 330 OHM J	1	EA	122LH,182LH/LH-R
R26	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R3	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R32	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R33	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R34	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R4	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R5	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R6	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R7	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R8	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R9	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
RA1	RA8K5103J-	RESISTOR ARRAY	6A 103J	1	EA	
RA2	RA8K3103J-	RESISTOR ARRAY	4A 103J	1	EA	
TEST	3108804300	WAFER	YF254S-02	1	EA	
TR1	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y)	1	EA	182L/L-R, 182LH/LH-R
TR2	TKRC102M--	TR	KRC 102-M (TAPPING)	1	EA	182L/L-R, 182LH/LH-R

* R-OPT. DETAIL LIST

MODEL	High		Low		Monitoring
	Cool	Heat	Cool	Heat	
LOCATION	R28	R29	R30	R31	R27
DSB-121L	2.87K	X	28.0K	X	X
DSB-122LH	2.87K	2.87K	28.0K	28.0K	24.3K
DSB-182L/L-R (151L)	3.65K	X	22.6K	X	X
DSB-182L/L-R	3.65K	3.65K	22.6K	22.6K	22.1K
LOCATION	R33 (R41)	R34 (R40)	R35 (R39)	R36 (R38)	R37 (R42)
DSB-070L, 091L, 092L	3.24K	X	24.9K	X	X
DSB-070LH, 071LH	3.24K	49.9K	24.9K	32.4K	24.3K
DSB-091LH, 092LH	3.24K	12.4K	24.9K	15.0K	24.3K
DSB-240L-R	3.76K	X	36.5K	X	X
DSA-240L-R, DSA-183L-R	6.34K	X	7.68K	X	X
DSB-240LH-R	5.76K	5.76K	36.5K	36.5K	22.1K
DSA-240LH-R, DSA-183LH-R	(6.34K)	(6.34K)	(7.68K)	(7.68K)	(6.19K)
DSB-123L	8.45K	X	11.1K	X	X
DSB-123LH	8.45K	8.45K	11.1K	11.1K	12.4K

◆ POWER PCB ASS`Y (MODEL : 122L/LH,151L,182L/L-R,182LH/LH-R,082M/H,102M/H,122M/H)

No	PART CODE	PART NAME	SPEC	Q'TY	UNIT	REMARK
BZ1	3105698200	BUZZER	DP-2520BA	1	EA	
C1	CLV-B3104M	C-LINE ACROSS	275V 104K(PILKOR)	1	EA	
C2	CLV-B3104M	C-LINE ACROSS	275V 104K(PILKOR)	1	EA	
CC	3108803500	PIN	GP881206-2(250)	1	EA	
CC1	CCXE1E104M	C-CERA	104Z 25VDC	1	EA	
CC2	CCXE1E104M	C-CERA	104Z 25VDC	1	EA	
CC3	CCXE1E104M	C-CERA	104Z 25VDC	1	EA	
CC4	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	
CE1	CEXE1V108C	C-ELEC	1000MF 35V SD	1	EA	
CE2	CEXE1E477C	C-ELEC	470MF 25V SD	1	EA	
CE3	CEXE1C107C	C-ELEC	100MF 16V SD	1	EA	
CL	3108803500	PIN	GP881206-2(250)	1	EA	
CLIP	3107000600	FUSE CLIP	AFC-520	2	EA	
CN1	3108803900	WAFER	YW396-05AV(RED)	1	EA	
CN2	3108803800	WAFER	YFW800-02	1	EA	
CN3	3108802900	WAFER	YW396-05AV	1	EA	
CN4	3108802500	WAFER	YW396-03AV	1	EA	
CN5	3108802800	WAFER	YW396-04AV(BLUE)	1	EA	082H,102H,122H
CN6	3108802100	WAFER	SMW250-10	1	EA	
CN7	3108800320	WAFER	5281-02A	1	EA	
CN8	3108803400	PIN	GP881205-2(187)	1	EA	122LH,182LH/LH-R
CN9	3108803600	WAFER	YFW800-01	1	EA	122LH,182LH/LH-R
D1	DZN4004A--	DIODE	KN4004A AUTO 52MM	1	EA	
D2	DZN4004A--	DIODE	KN4004A AUTO 52MM	1	EA	
D3	DZN4004A--	DIODE	KN4004A AUTO 52MM	1	EA	
D4	DZN4004A--	DIODE	KN4004A AUTO 52MM	1	EA	
D5	DZN4004A--	DIODE	KN4004A AUTO 52MM	1	EA	
D6	DZN4004A--	DIODE	KN4004A AUTO 52MM	1	EA	
FUSE	5FVLB3152L	FUSE GLASS TUBE	250V/50T 3.15A	1	EA	
HS1	3105797200	HEAT SHINK	22(H)*23*17	1	EA	
IC1	1KA7812AP-	IC REGULATOR	KIA 7812AP	1	EA	
IC2	1KA7805AP-	IC REGULATOR	KIA 7805AP TO-220IS	1	EA	
L1	52C1374001	COIL	130UH 3A	1	EA	
PCB	3104396142	PCB POWER	130*81*1.6T(84)	1	EA	
PT1	1TLP560J--	IC PHOTO COUPLER	TLP 560J	1	EA	
R1	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R2	RD-4K103J-	R CARBON FILM	1/4 10K OHM J	1	EA	
R3	RD-4K562J-	R CARBON FILM	1/4 5.6K OHM J	1	EA	
R4	RD-2K102J-	RESISTOR	1/2W - 1K	1	EA	
R5	RD-4K101J-	R CARBON FILM	1/4 100 OHM J	1	EA	
R6	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R7	RS01F121J-	R M-OXIDE FILM	1W 120 OHM J	1	EA	
RL1	5SC0101220	RELAY	UKH-12SP	1	EA	122L/LH,082M/H
RL1	5SC0101220	SW RELAY	CS11-12SH 1C 1P	1	EA	
RL2	5SC0101128	SW RELAY	CS11-12SH 1C 1P	1	EA	122LH,182LH/LH-R
RL3	5SC0101128	SW RELAY	CS11-12SH 1C 1P	1	EA	122LH,182LH/LH-R
RL4	5SC0101128	SW RELAY	CS11-12SH 1C 1P	1	EA	082H,102H,122H
SCRW	7122401211	SCREW TAPPING	T2S TRS 4*12 MFZN	1	EA	
T1	TSM3JZ47--	TRIAC	SM3JZ47	1	EA	
TR1	TKRC102M--	TR	KRC 102-M (TAPPING)	1	EA	
VAR	D15G561K--	VARISTOR	15G561K/350V	1	EA	
WSHR	3106002900	WASHER	3*6	1	EA	

◆ LED PCB ASS`Y (MODEL : 070L/LH, 071LH, 091L/LH, 092LH, 052M/H)

No	PART CODE	PART NAME	SPEC	Q'TY	UNIT	REMARK
CC1	CDXE1H104M	C-MULTI	CR501B-Z5U,104Z,50V	1	EA	
CN1	3108804800	WAFER	SMAW250-08	1	EA	
HOLD	3103002700	HOLDER LED	ABS	1	EA	
L1	DDLS05031D	LED	DLSO-5031D(RED)	1	EA	
L2	DDLG05031D	LED	DLG-5031D(GRN)	1	EA	
L3	DDLS05031D	LED	DLSO-5031D(RED)	1	EA	
L4	DDLY05031D	LED	DLY-5031D(YLW)	1	EA	
PCB	3104398201	PCB LED	110*31*1.6T.10(288)	1	EA	
RCV	1TSP1838YA	RECEIVER MODULE	TSOP-1838YA1(HOLDER)	1	EA	
SW1	5S40202000	S/W PUSH	JPS2281	1	EA	

◆ LED PCB ASS`Y (MODEL : 123LH, 183L-R/LH-R, 240L-R/LH-R)

No	PART CODE	PART NAME	SPEC	Q'TY	UNIT	REMARK
CC1	CDXE1H104M	C-MULTI	CR501B-Z5U,104Z,50V	1	EA	
CN1	3108804800	WAFER	SMAW250-08	1	EA	
HOLD	3103004100	HOLDER LED		1	EA	
L1	DDLS05031D	LED	DLSO-5031D(RED)	1	EA	
L2	DDLG05031D	LED	DLG-5031D(GRN)	1	EA	
L3	DDLS05031D	LED	DLSO-5031D(RED)	1	EA	
L4	DDLY05031D	LED	DLY-5031D(YLW)	1	EA	
PCB	3104398202	PCB LED	150*24.5*1.6T(240)	1	EA	
RCV	1TSP1838YA	RECEIVER MODULE	TSOP-1838YA1(HOLDER)	1	EA	
SW1	5S40202000	S/W PUSH	JPS2281	1	EA	

◆ LED PCB ASS`Y (MODEL : 122L/LH,080M/H)

No	PART CODE	PART NAME	SPEC	Q'TY	UNIT	REMARK
CC1	CXCH1H103M	C CERA	103J/50 20%	1	EA	
CN1	3108804600	WAFER	SMAW250-07	1	EA	
HOLD	3103001900	LED HOLDER	ABS(VO) T2.0	1	EA	
L1	DDSR302D--	LED	DLSR-302D(RED)	1	EA	
L2	DDLG302D--	LED	DLG-302D	1	EA	
L3	DDSR302D--	LED	DLSR-302D(RED)	1	EA	
L4	DDLY302D--	LED	DLY-302D	1	EA	
PCB	3104397402	LED PCB	72*50*1.6T(247)	1	EA	
RCV	1TSP1838YA	RECEIVER MODULE	TSOP-1838YA1(HOLDER)	1	EA	

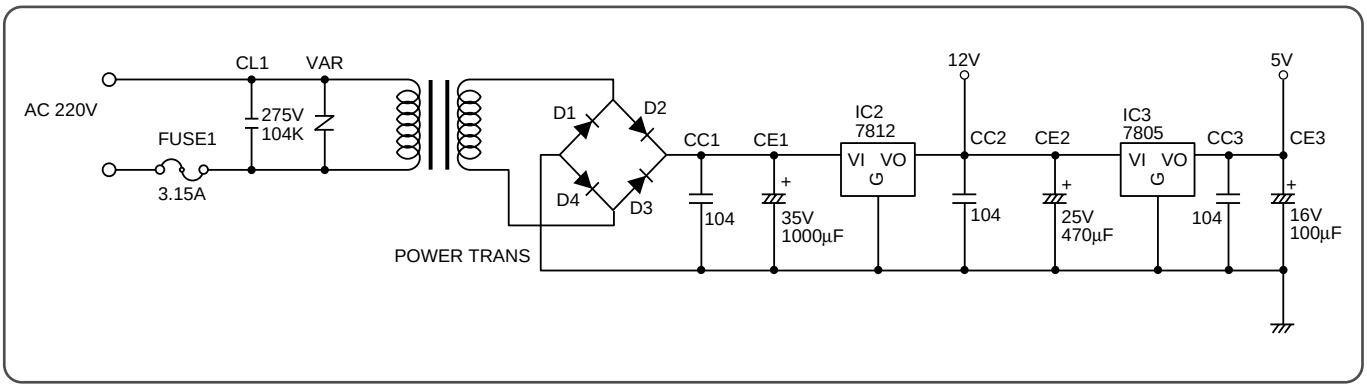
◆ LED PCB ASS`Y (MODEL : 182L/L-R,182LH/LH-R,151L/LH,102M/H,122M/H)

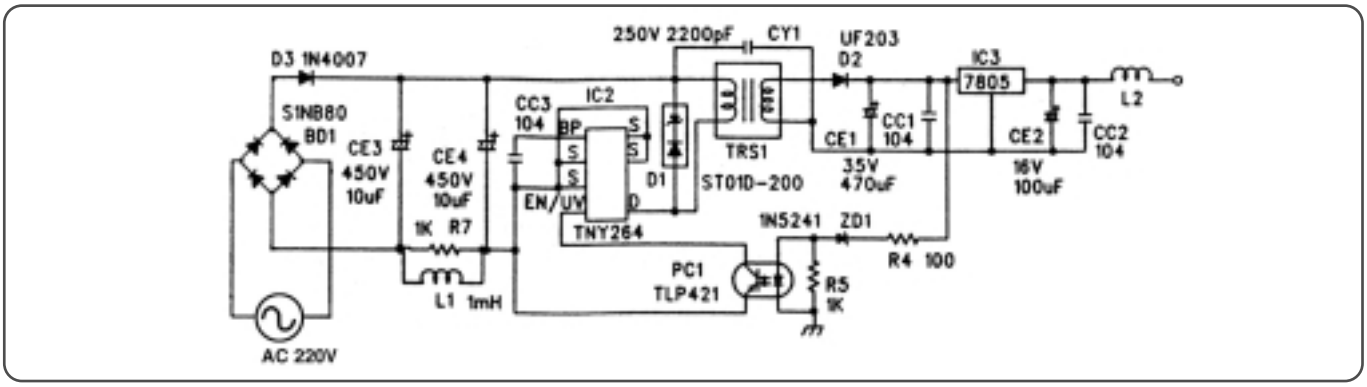
No	PART CODE	PART NAME	SPEC	Q'TY	UNIT	REMARK
CC1	CXCH1H103M	C CERA	103J/50 20%	1	EA	
CN1	3108804600	WAFER	SMAW250-07	1	EA	
HOLD	3103001100	LED HOLDER	ABS (BLK)	1	EA	
L1	DDSR302D--	LED	DLSR-302D(RED)	1	EA	
L2	DDLG302D--	LED	DLG-302D	1	EA	
L3	DDSR302D--	LED	DLSR-302D(RED)	1	EA	
L4	DDLY302D--	LED	DLY-302D	1	EA	
PCB	3104395412	LED PCB	67.5*40*1.6T(350)	1	EA	
RCV	1TSP1838YA	RECEIVER MODULE	TSOP-1838YA1(HOLDER)	1	EA	

◆ SWITCH PCB ASS`Y (MODEL : 182L/L-R,182LH/LH-R, 151L,102M/H,122M/H)

No	PART CODE	PART NAME	SPEC	Q'TY	UNIT	REMARK
CN1	3108804700	WAFER	SMAW250-02	1	EA	
PCB	3104395311	S/W PCB	36*29.5*1.6T(891)	1	EA	
SW1	5S30101330	SWITCH SLIDE	KSA-2340B	1	EA	

Power Supply(1)

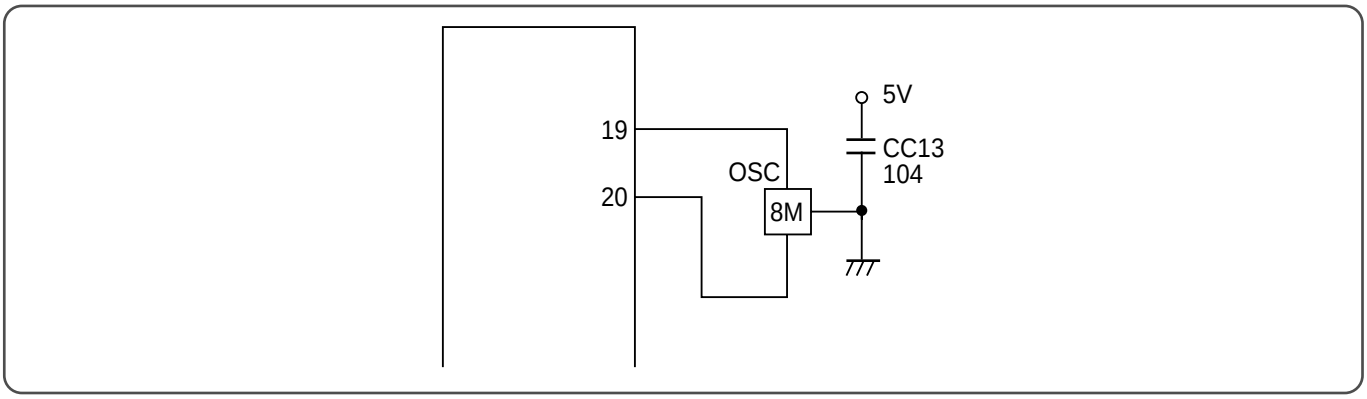




DESCRIPTION

DC Power Supply in circuit needs +12V and +5V. +12V is used for Compressor Driving Relay, Triac Driving Photo Triac, Buzzer Driving Swing, Sweep Motor. AC voltage of secondary Power Transformer is rectified by Bridge Diode, and it is filtering by Main Condensor CE1.
Filtered DC voltage is about +18V, is regulated +12V DC by Regulator IC7812.
And it is regulated +5V DC by Regulator IC7805.
VAR is serge filter and CC1, CC2, CC3 is Noise filter.

Oscillator(2)



DESCRIPTION

Oscillatory Frequency drive Micom, it is made up 8MHz resonator oscillatory Freqency.
Ocillatory wave is as following Fig 2-1.

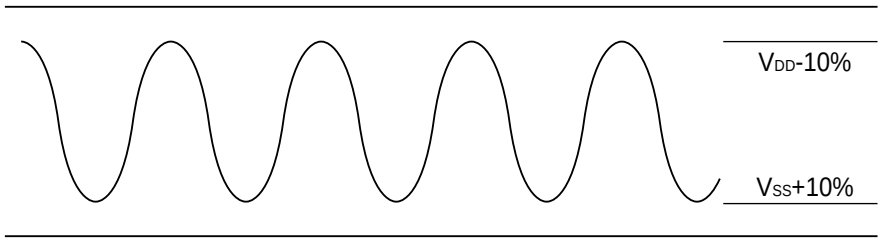
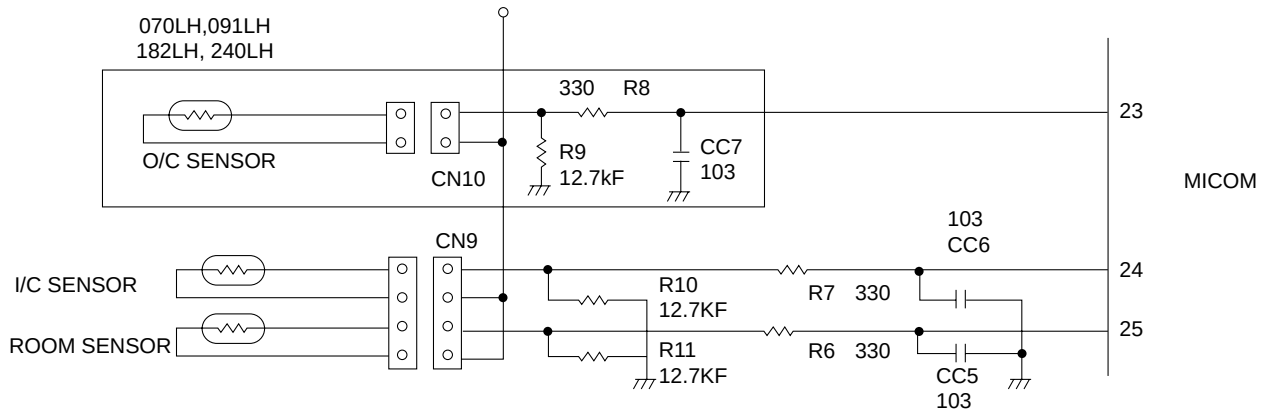


Fig 2-1

Sensor(3)

Room temperature and Evaporator temperature Sensor Input



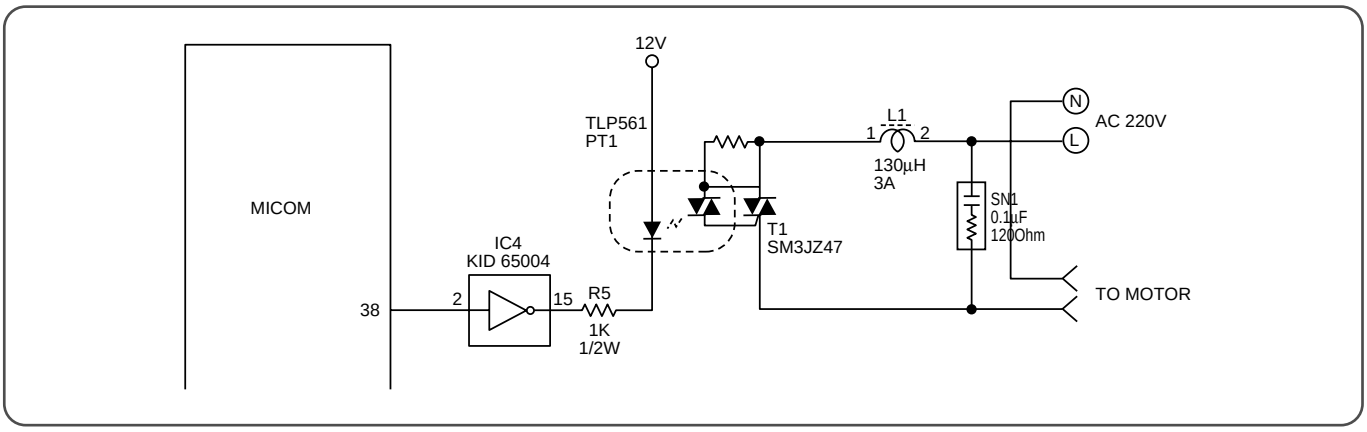
DESCRIPTION

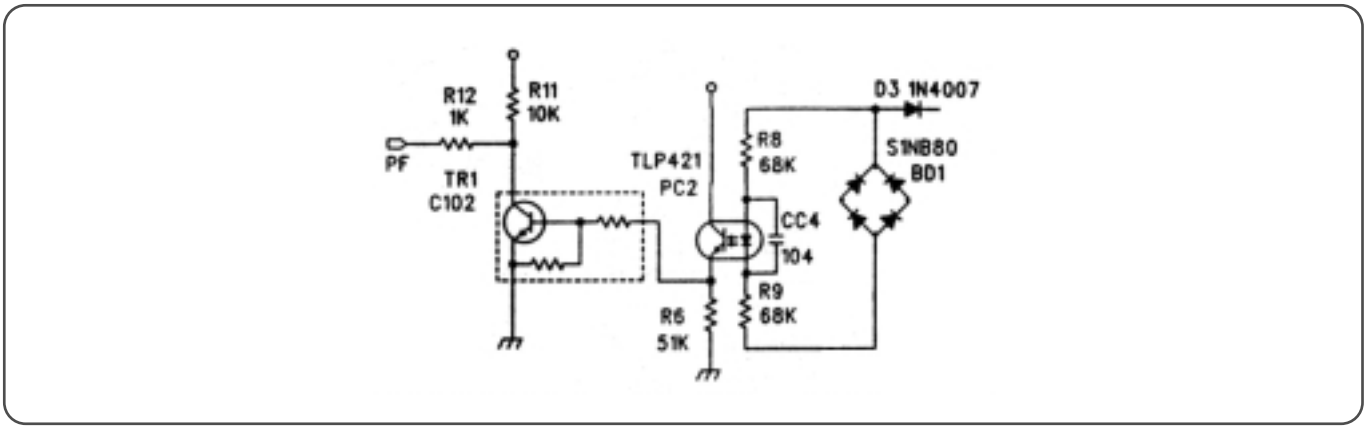
Number 24, 25 of Micom is Terminal of A/D convertor Input.
Room temperature and Evaporator temperature is sensing by change of Thermister Resistance, Micom is put in 5V by ratio between R10 (12.7KΩ) and R11 (12.7KΩ).
Relation between temperature and voltage is following Table 3-1.
CC5, 6 is Noise filter.

Temperature (℃)	Voltage (V)	
	No. 1	No. 3
-5	1.127	1.127
0	1.378	1.378
5	1.650	1.650
10	1.936	1.936
15	2.228	2.228

Table 3-1

Triac Driving(4)





DESCRIPTION

Number 38 Terminal of Micom is put out Pulse Output, by way of Buffer it is driving Photo Triac is supplied Trigger Signal.
Trigger Test of Triac is detected Zero Cross Part of AC input and it is triggered from Zero Cross part to Time delay part according to Fan Speed. (Ref. Fig 4-1) SN1 is Snubber.

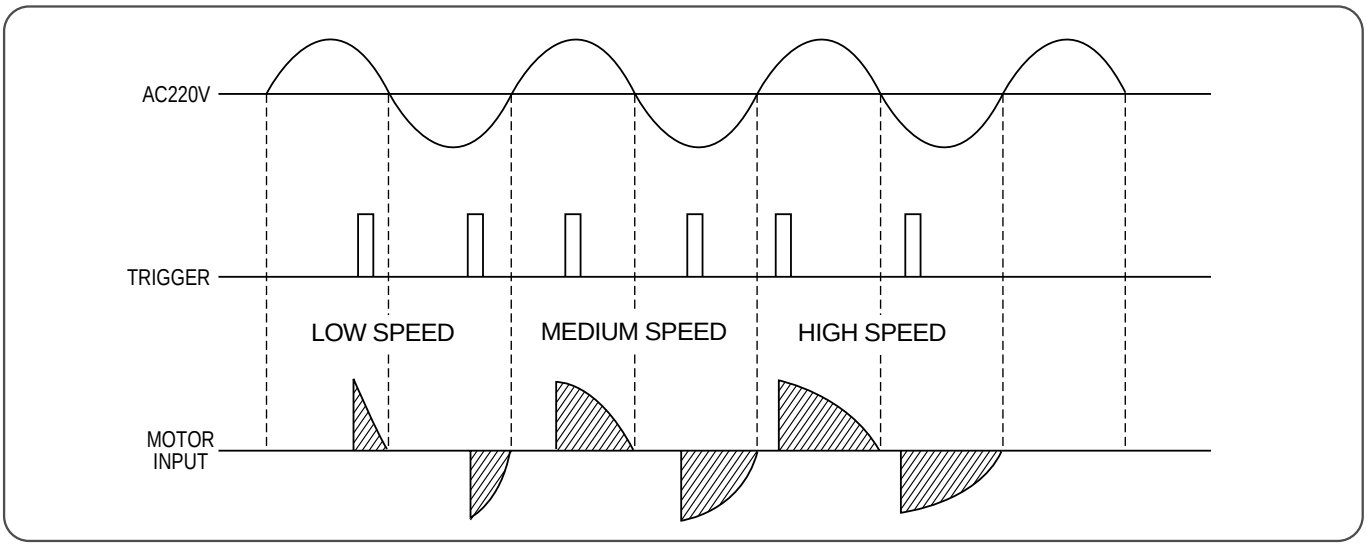


Fig 4-1

Remote Controller(5)

DESCRIPTION

Signal from Remote Controller put in only Control Data Signal at Micom Terminal of Number 33, which is gotten fid of Carrier (38KHz) from Receive Module. Signal Wave repeat third as following Fig 5-1.
But in Secondary Wave Custom Code is Reversed Face.

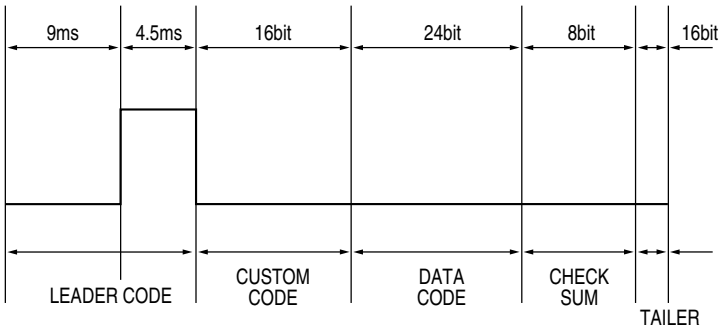


Fig 5-1

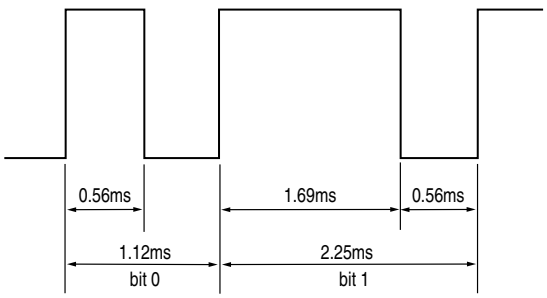
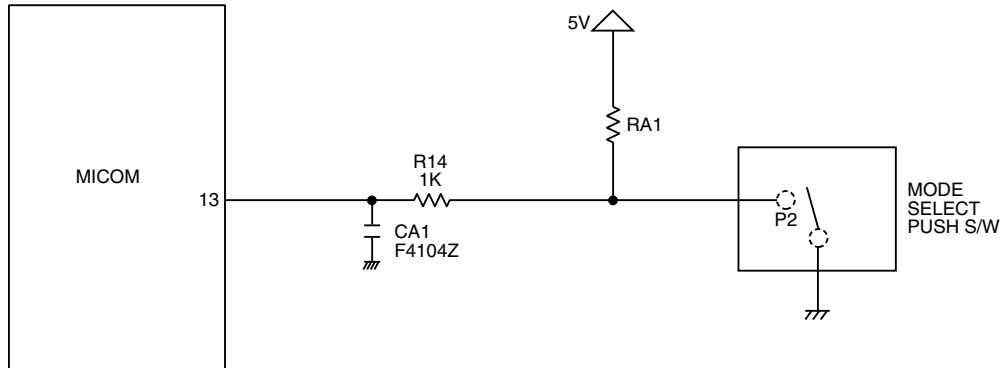


Fig 5-2
BIT STRUCTURE

Selecting Mode(6)

(SELECT S/W INPUT, OUTPUT)



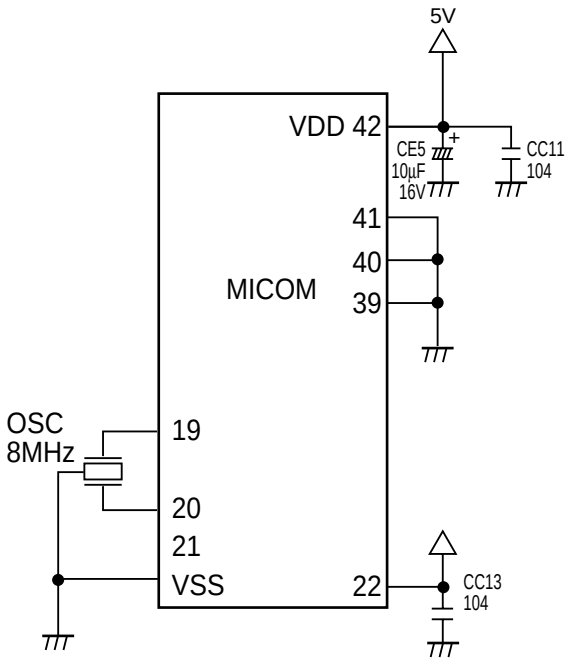
DESCRIPTION

There are Mode according to SW position as following Table 6-1.
According as port of fixed Micom is Low, the unit is operating as following Table 6-1.

POSITION	MODE
OPEN	REMOCON
GND	EMERGENCY

Table 6-1

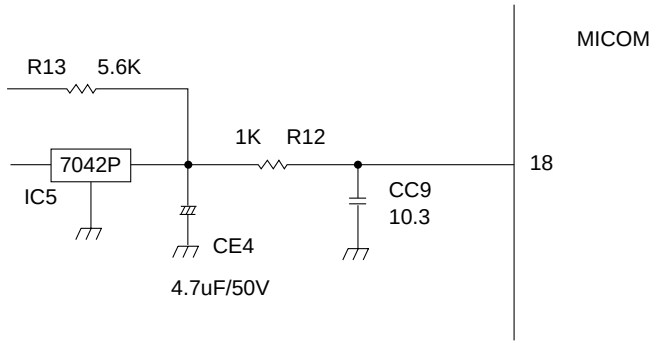
Micom Power Supply(7)



DESCRIPTION

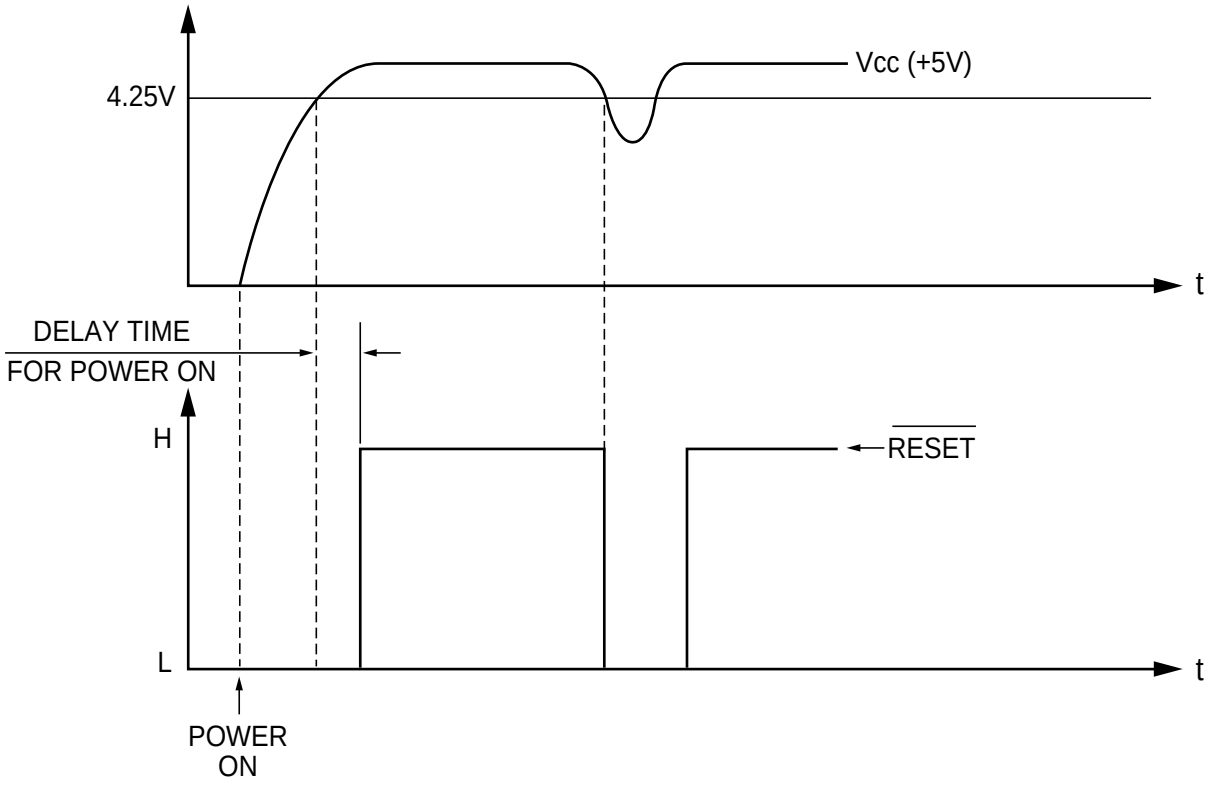
MICOM Power is supplied 5V at Number 42 using VDD, Number 19, 20 Vsing Oscillator, CC13 is noise filter.

Reset(8)

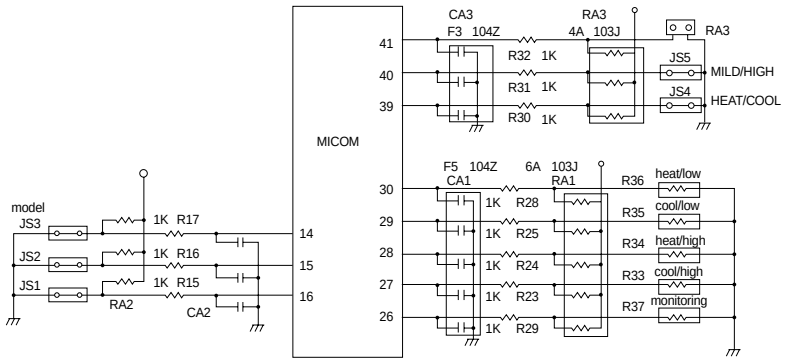


DESCRIPTION

Voltage less than about 0.8V put in Micom Terminal of Number 18 and then Micom reset. Reset IC detect Power ON and Voltage less than 4.25V, and then send Reset Signal.



Function Selecting(9)



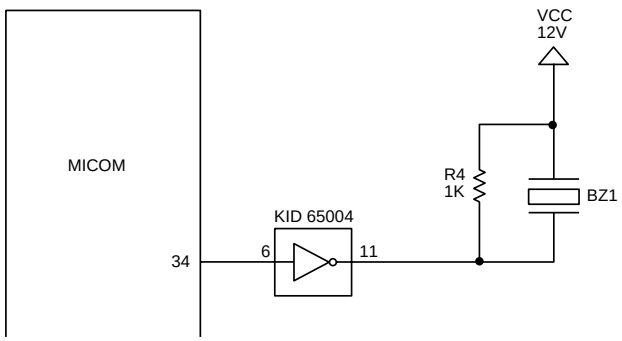
DESCRIPTION

Selecting function is as following table 9-1.

* When power source is put at fist, Funtion selection input is recognized.
And when the unit is running the microcomputer ignore variation of funtion selection input.

		JS1	JS2	JS4	JS5
FAN	MILD	–	–	–	SHORT
	HIGH	–	–	–	OPEN
FUNCTION	HEAT	–	–	SHORT	–
	COOL	–	–	OPEN	–
MODEL	070	SHORT	SHORT	–	–
	091	OPEN	OPEN	–	–
	122/240	SHORT	OPEN	–	–
	181	OPEN	SHORT	–	–

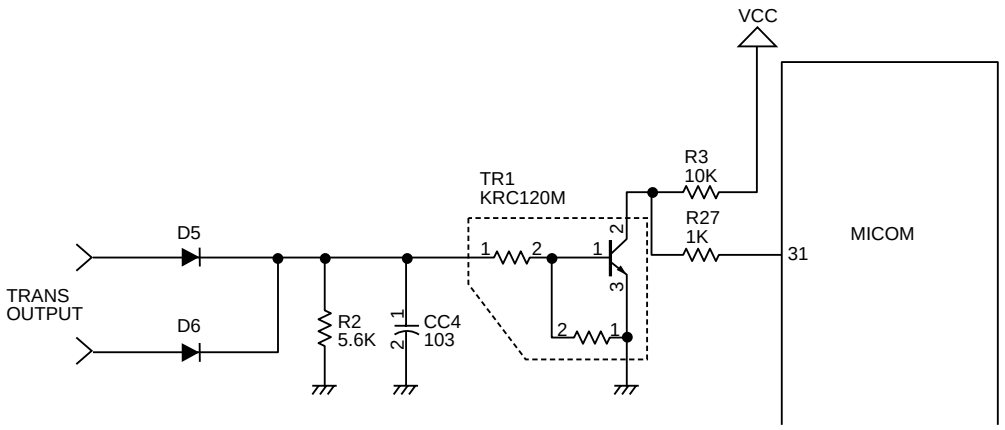
Buzzer Driving(10)



DESCRIPTION

Micom 34 Terminal put out Buzzer Driving Pulse, its output is driving Buzzer through Buffer.
Ocillatory Frequency of buzzer is selected by internal Micom.
This unit is setting at 4KHz.

Zero Crossing Detect(11)



DESCRIPTION

It defect Zero Cross part of Trans output voltage, Transistor TR1 is used to put in the Micom.
Detail Driving is as following Fig 11-1.
R19 is Resistance to limit current.

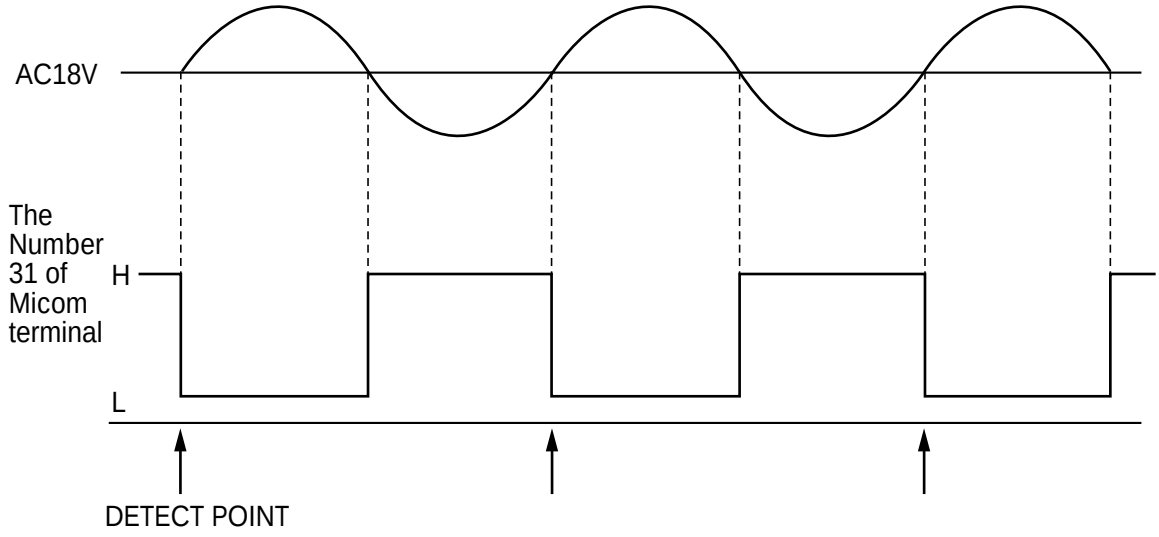
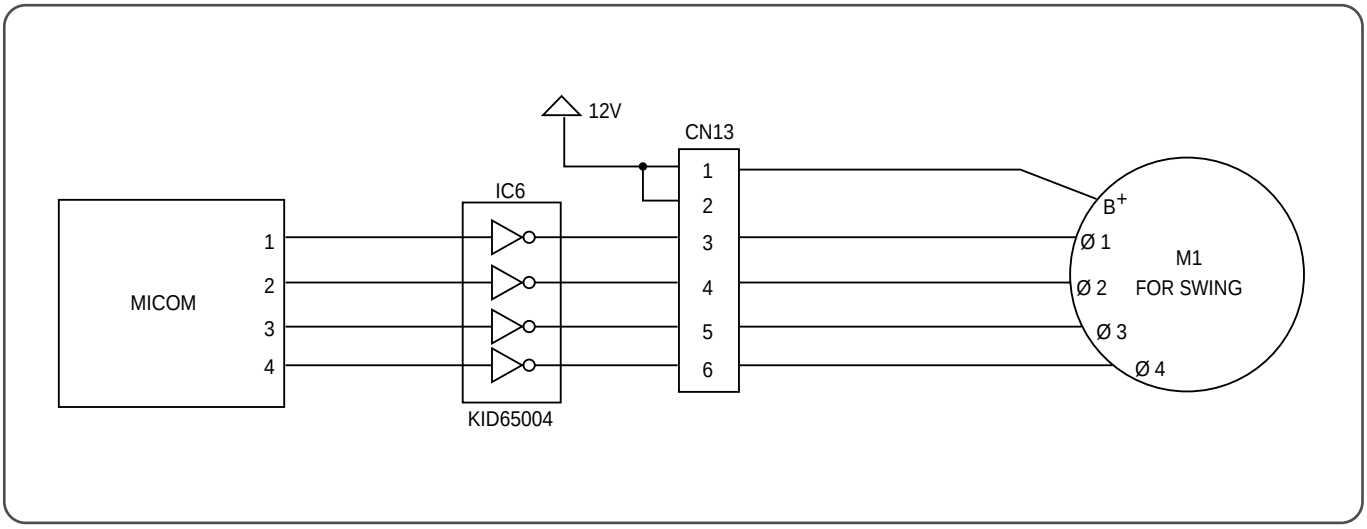


Fig 11-1

Stepping Motor Driving(12)



DESCRIPTION

There are one Stepping Motor for Flap (up and down) and it is used 4 face Drive Method.
It is driving as following Fig 12-1. (Ring Count Method of 8 Status)

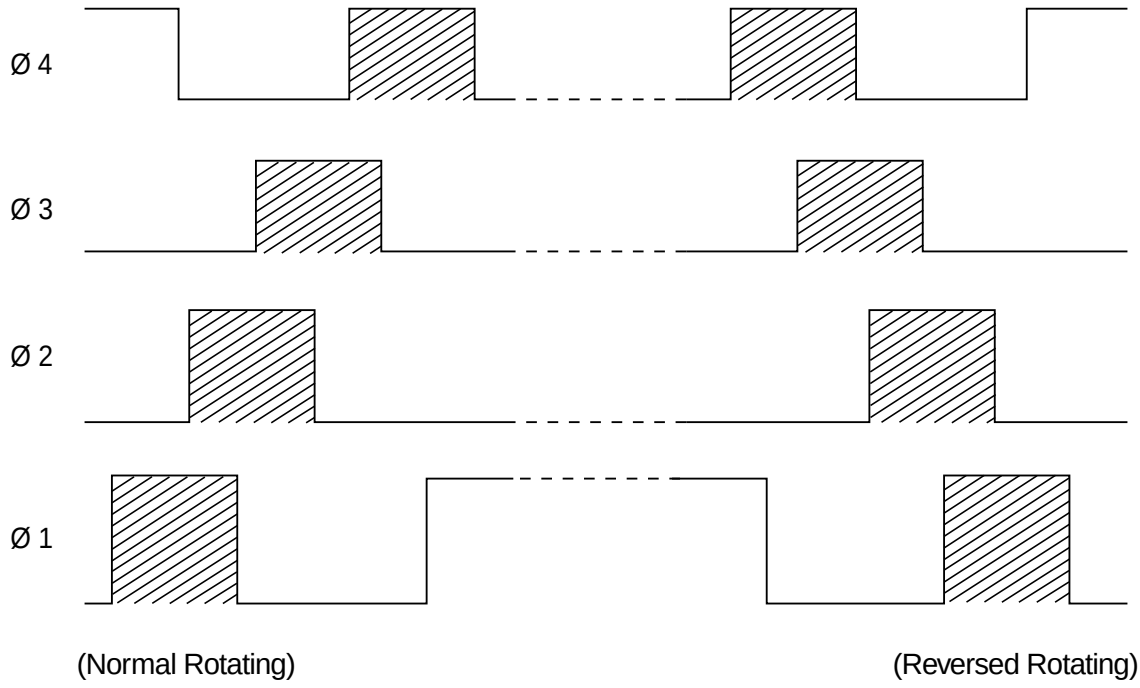
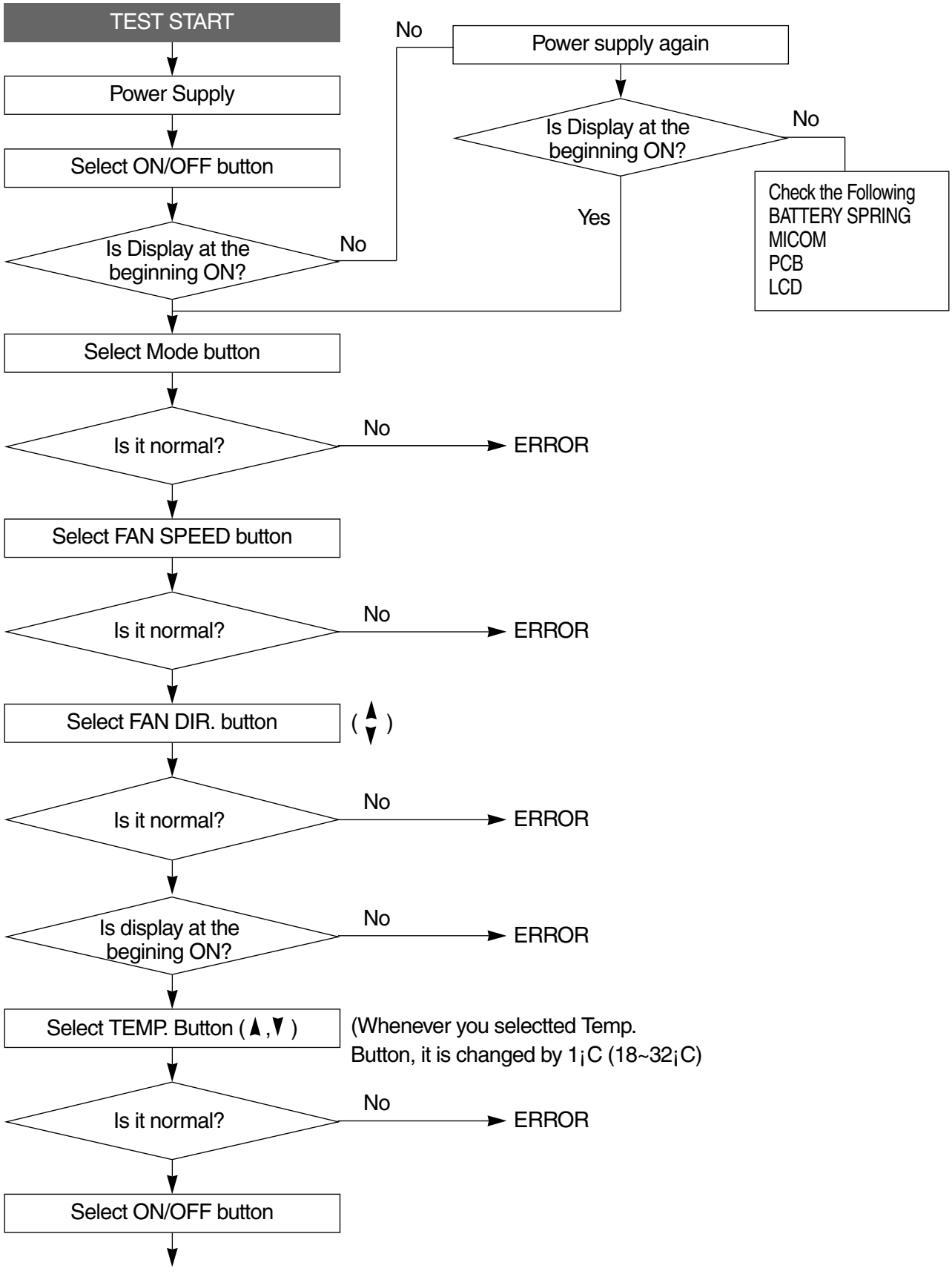
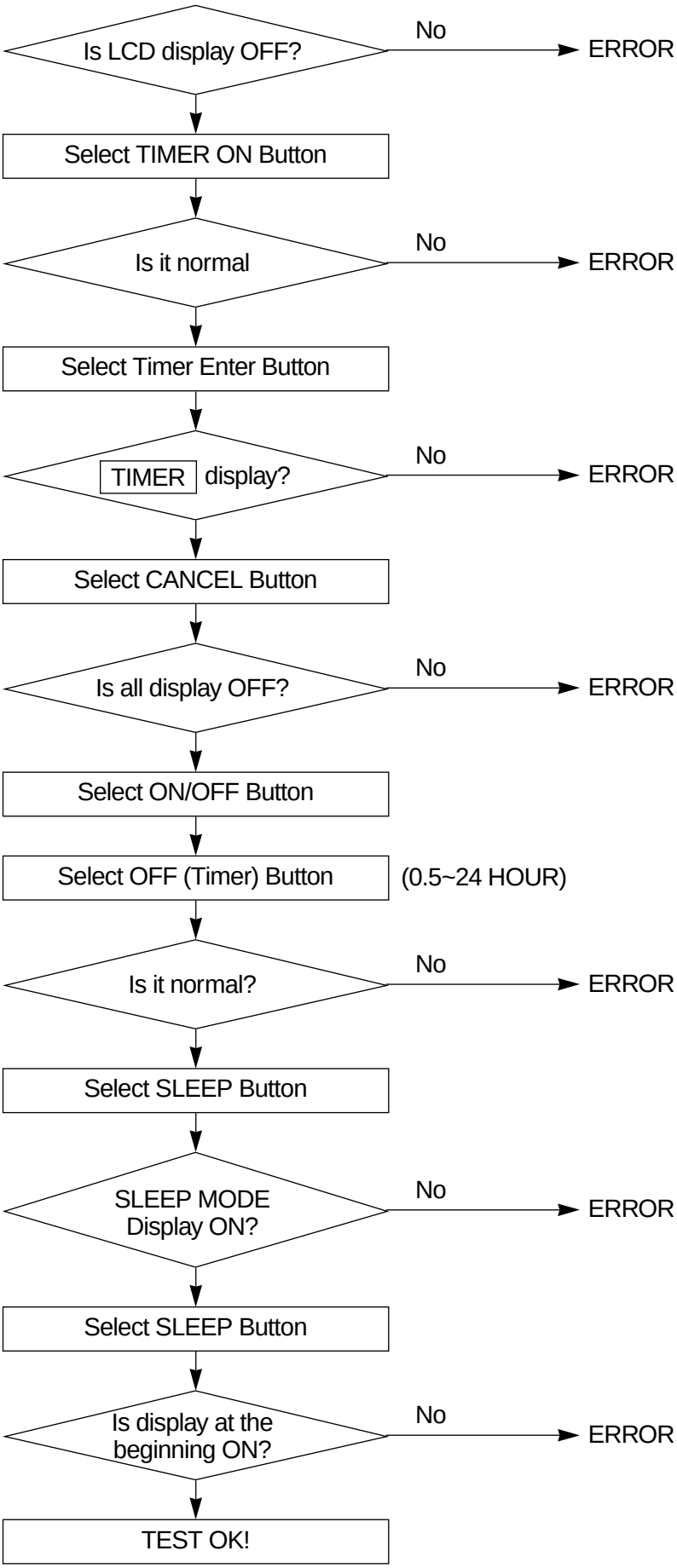


Fig 12-1

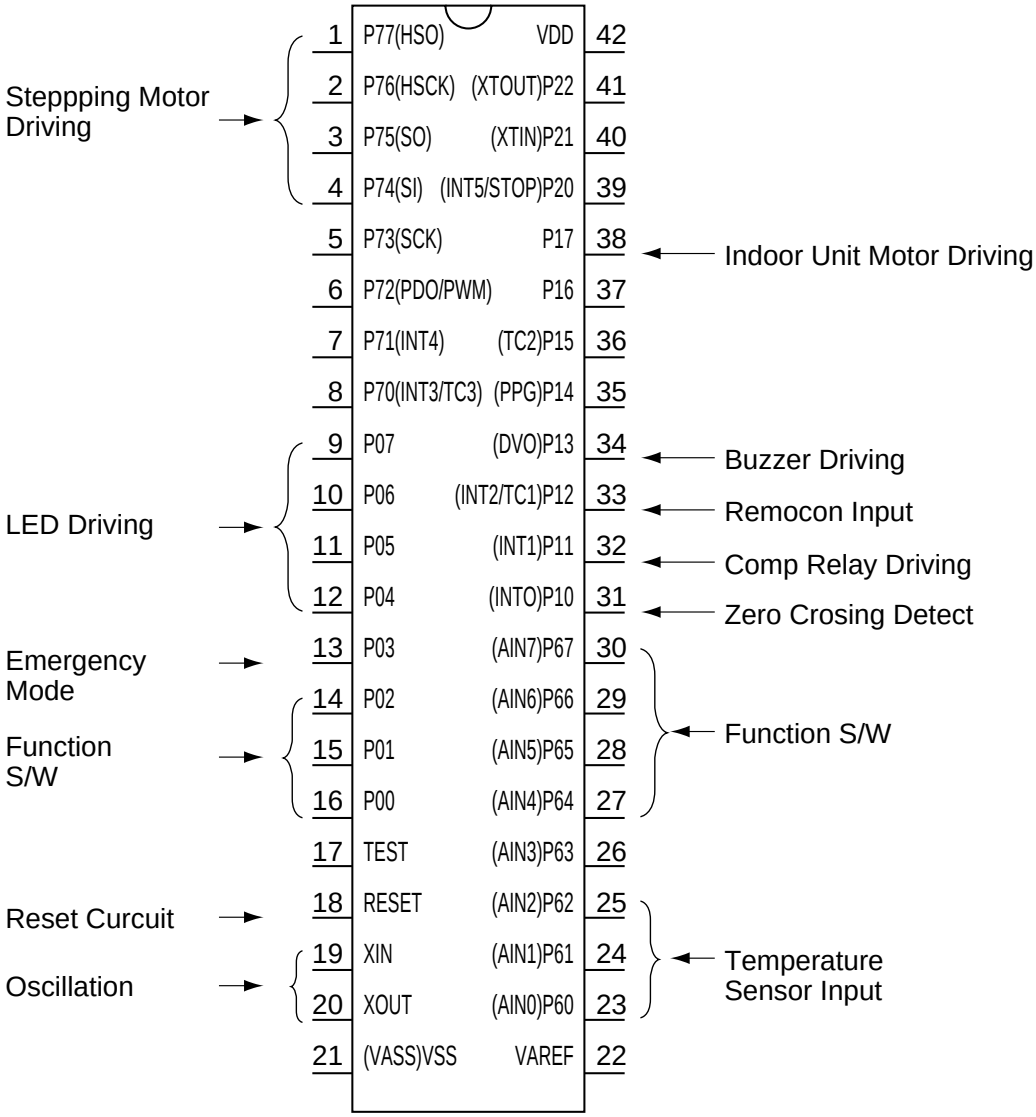
2 REMOTE CONTROLLER ASSMBLY FUNCTIONAL TEST METHOD



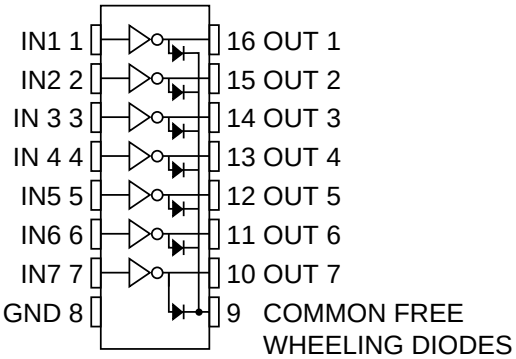

Is LCD display OFF?
No
ERROR
Select TIMER ON Button
Is it normal
No
ERROR
Select Timer Enter Button
TIMER display?
No
ERROR
Select CANCEL Button
Is all display OFF?
No
ERROR
Select ON/OFF Button
Select OFF (Timer) Button
(0.5~24 HOUR)
Is it normal?
No
ERROR
Select SLEEP Button
SLEEP MODE
Display ON?
No
ERROR
Select SLEEP Button
Is display at the
beginning ON?
No
ERROR
TEST OK!

8. KEY COMPONENTS OF ELECTRONIC CIRCUIT

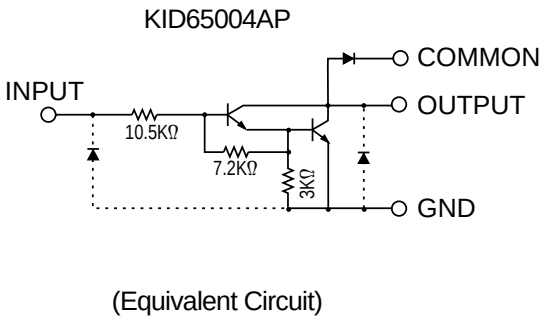
(1) U1 (MICOM)



(2) U2, 4 (KID65004) DARLINGTON ARRAYS

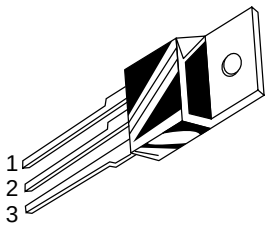


(Top View)



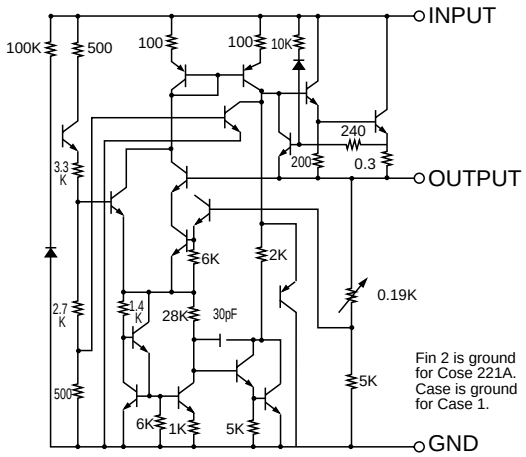
(Equivalent Circuit)

(3) U8 (KIA7805P) : VOLTAGE REGULATOR (5VDC)

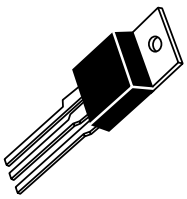


Pin 1. INPUT
2. GROUND
3. OUTPUT

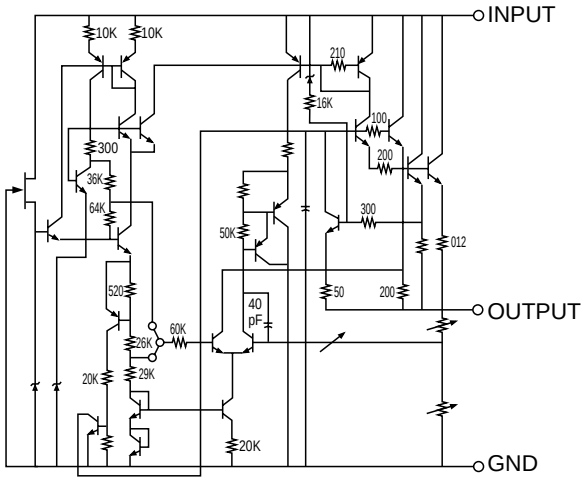
SCHEMATIC DIAGRAM



(4) U7 (KIA7812P) : VOLTAGE REGULATOR (12VDC)

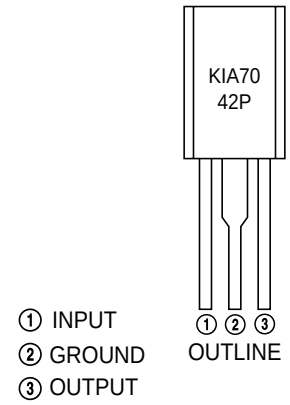


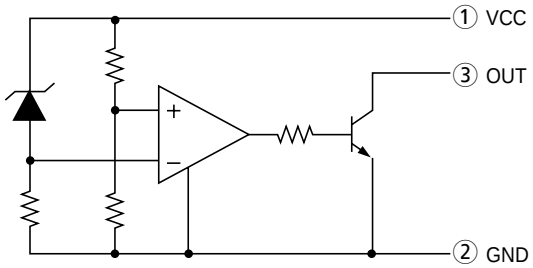
Pin 1. INPUT
2. GROUND
3. OUTPUT



(Equivalent Ciircuit)

(5) U9 (KIA7042P) : RESET IC

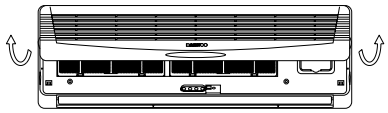
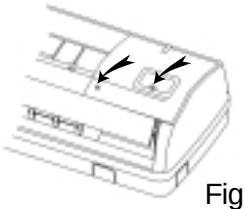
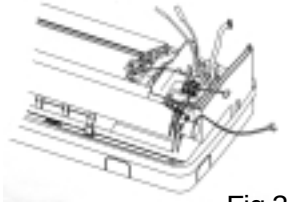
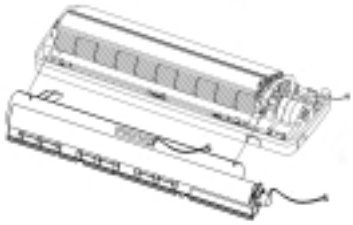
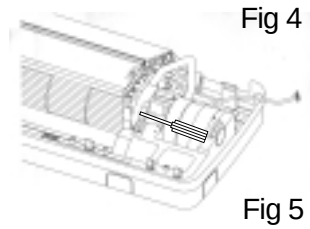
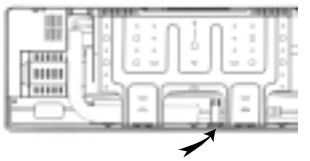
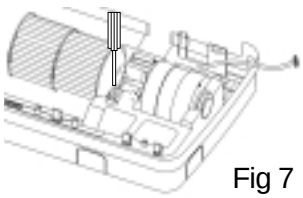




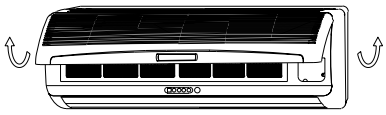
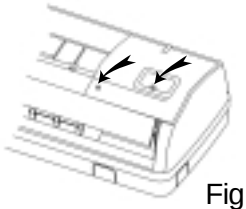
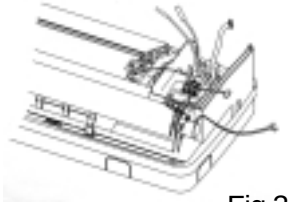
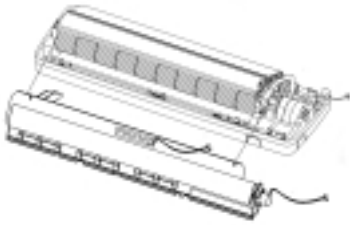
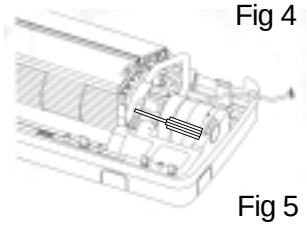
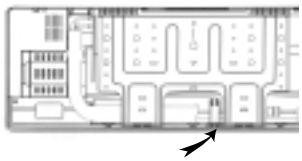
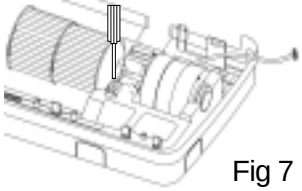
9. DISASSEMBLY INSTRUCTIONS

1 INDOOR UNIT

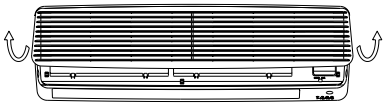
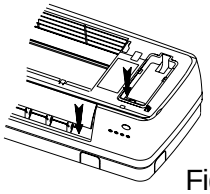
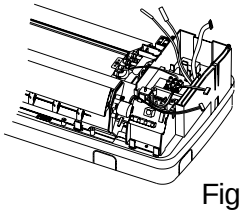
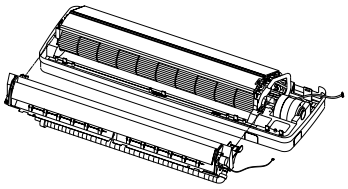
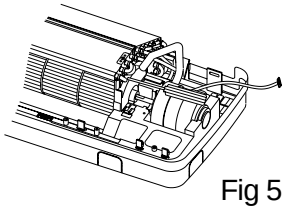
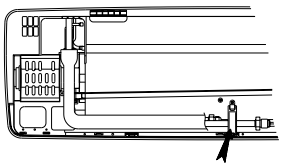
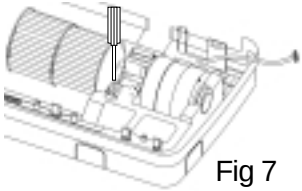
◆ DSB-070LH/DSB-091LH

PROCEDURES	PHOTOS
1. Stop the operation of the Air conditioner and disconnect the power cord from the wall outlet.	 Fig 1
2. Removing the Insert Grille and Frame Grille. (Fig 1~2) ① Draw up the Insert Grille and remove it. ② Loosen the screw fixed at the Cover Ter-Block. ③ Loosen two screws fixed at the Frame Grille. ④ Remove the Frame Grille.	 Fig 2
3. Removing the Control Box. (Fig 3) ① Remove room and coil thermistors. ② Disconnect the fan motor lead wire from connection at the Control PCB. ③ Disconnect the stepping motor lead wire from connection at the Control PCB. ④ Remove the select switch from connection at the Control PCB. ⑤ Loosen the screw fixed at the ground wire. ⑥ Remove the Control Box	 Fig 3
4. Removing the Drain Pan. (Fig 4) ① Disconnect the Body drain hole. (left and right Body) ② Disconnect three hooks and remove the Drain Pan.	 Fig 4
5. Removing the Indoor Evaporator. (Fig 5~6) ① Remove the screw fixed at the indoor Evaporator of the Body. ② Remove the hook fixed at the Bracket Pipe of the back of Body. ③ Remove Indoor Evaporator.	 Fig 5
6. Removing the Cross Flow Fan. (Fig 7) ① Remove set screw fixed at the Motor shaft. ② Remove Cross Flow Fan.	 Fig 6
7. Remove Motor IDU and Bearing Plastic.	 Fig 7

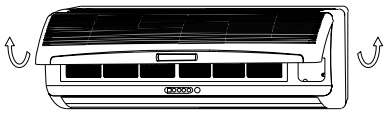
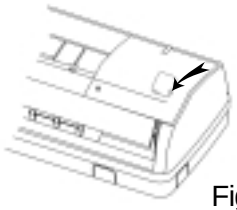
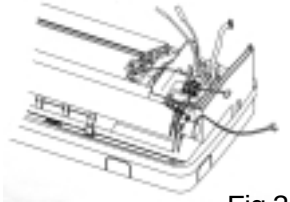
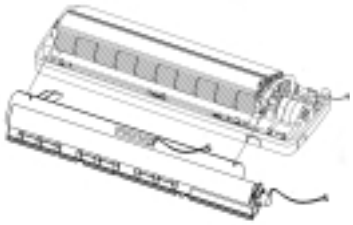
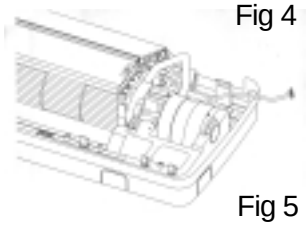
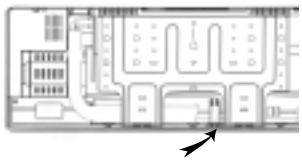
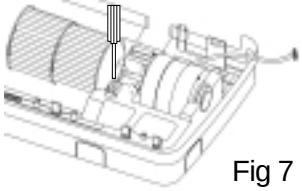
◆ DSB-071LH/DSB-092LH

PROCEDURES	PHOTOS
1. Stop the operation of the Air conditioner and disconnect the power cord from the wall outlet.	 Fig 1
2. Removing the Insert Grille and Frame Grille. (Fig 1~2) ① Draw up the Insert Grille and remove it. ② Loosen the screw fixed at the Cover Ter-Block. ③ Loosen two screws fixed at the Frame Grille. ④ Remove the Frame Grille.	 Fig 2
3. Removing the Control Box. (Fig 3) ① Remove room and coil thermistors. ② Disconnect the fan motor lead wire from connection at the Control PCB. ③ Disconnect the stepping motor lead wire from connection at the Control PCB. ④ Remove the select switch from connection at the Control PCB. ⑤ Loosen the screw fixed at the ground wire. ⑥ Remove the Control Box	 Fig 3  Fig 4
4. Removing the Drain Pan. (Fig 4) ① Disconnect the Body drain hole. (left and right Body) ② Disconnect three hooks and remove the Drain Pan.	 Fig 5
5. Removing the Indoor Evaporator. (Fig 5~6) ① Remove the screw fixed at the indoor Evaporator of the Body. ② Remove the hook fixed at the Bracket Pipe of the back of Body. ③ Remove Indoor Evaporator.	 Fig 6
6. Removing the Cross Flow Fan. (Fig 7) ① Remove set screw fixed at the Motor shaft. ② Remove Cross Flow Fan.	 Fig 7
7. Remove Motor IDU and Bearing Plastic.	

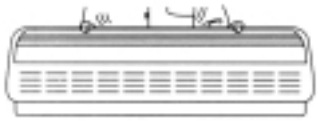
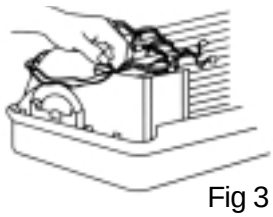
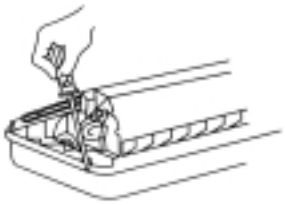
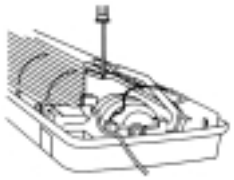
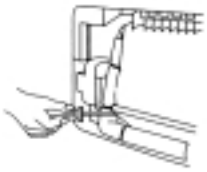
◆ DSB-121LH/DSB-122LH

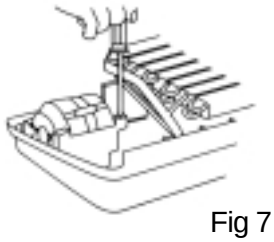
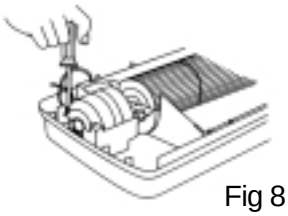
PROCEDURES	PHOTOS
1. Stop the operation of the Air conditioner and disconnect the power cord from the wall outlet.	 Fig 1
2. Removing the Insert Grille and Frame Grille. (Fig 1~2) ① Draw up the Insert Grille and remove it. ② Loosen two special screws fixed at the Cover Ter-Block. ③ Loosen three screws fixed at the Body. ④ Remove the Frame Grille.	 Fig 2
3. Removing the Control Box. (Fig 3) ① Remove room and coil thermistors. ② Disconnect the fan motor lead wire from connection at the Control PCB. ③ Disconnect the stepping motor lead wire from connection at the Control PCB. ④ Remove the select switch from connection at the Control PCB. ⑤ Loosen the screw fixed at the ground wire. ⑥ Remove the Control Box	 Fig 3
4. Removing the Drain Pan. (Fig 4) ① Disconnect the Body drain hole. (left and right Body) ② Disconnect three hooks and remove the Drain Pan.	 Fig 4
5. Removing the Indoor Evaporator. (Fig 5~6) ① Remove three screws fixed at the indoor Evaporator of the Body. ② Remove the hook fixed at the Bracket Pipe of the back of Body. ③ Remove the Indoor Evaporator.	 Fig 5
6. Removing the Cross Flow Fan. (Fig 7) ① Remove set screw fixed at the Motor shaft. ② Remove the Cross Flow Fan.	 Fig 6
7. Remove Motor IDU and Bearing Plastic.	 Fig 7

◆DSB-123LH

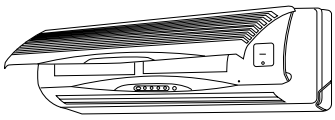
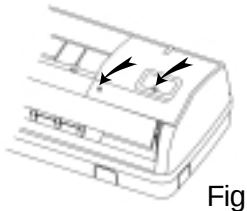
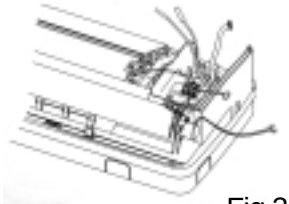
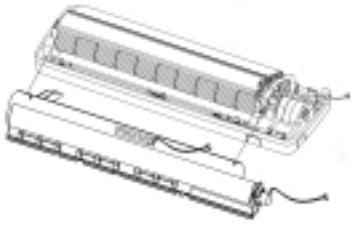
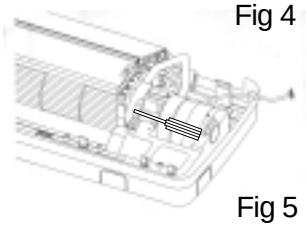
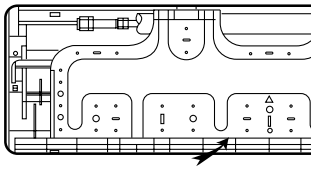
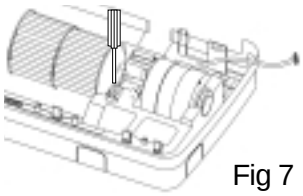
PROCEDURES	PHOTOS
1. Stop the operation of the Air conditioner and disconnect the power cord from the wall outlet.	 Fig 1
2. Removing the Insert Grille and Frame Grille. (Fig 1~2) ① Draw up the Insert Grille and remove it. ② Loosen the screw fixed at the Cover Ter-Block. ③ Loosen four screws fixed at the Frame Grille. ④ Remove the Frame Grille.	 Fig 2
3. Removing the Control Box. (Fig 3) ① Remove room and coil thermistors. ② Disconnect the fan motor lead wire from connection at the Control PCB. ③ Disconnect the stepping motor lead wire from connection at the Control PCB. ④ Remove the select switch from connection at the Control PCB. ⑤ Loosen the screw fixed at the ground wire. ⑥ Remove the Control Box	 Fig 3  Fig 4
4. Removing the Drain Pan. (Fig 4) ① Disconnect the Body drain hole. (left and right Body) ② Disconnect three hooks and remove the Drain Pan.	 Fig 5
5. Removing the Indoor Evaporator. (Fig 5~6) ① Remove two screws fixed at the indoor Evaporator of the Body. ② Remove the hook fixed at the Bracket Pipe of the back of Body. ③ Remove Indoor Evaporator.	 Fig 6
6. Removing the Cross Flow Fan. (Fig 7) ① Remove set screw fixed at the Motor shaft. ② Remove Cross Flow Fan.	 Fig 7
7. Remove Motor IDU and Bearing Plastic.	

◆ DSB-182LH/DSB-182LH-R

PROCEDURES	PHOTOS
1. Stop the operation of the Air conditioner and disconnect the power cord from the wall outlet.	Fig 1
2. Removing the Insert Grille and Frame. ① Loosen three screws fixed at the the Insert Grille and Frame. (Pull out the frame cap before loosening three screws) (Fig 1) ② Loosen three screws fixed at the Drain Pan. ③ Remove the Insert Grille and Frame.	 Fig 2
3. Removing the Control Box. ① Disconnect indoor room and coil thermistors. (Fig 3) ② Disconnect the fan motor lead wire from connection at the main PCB. (Fig 3) ③ Disconnect the swing motor connection wire. ④ Loosen the screw fixed at the ground wire. ⑤ Loosen two screws fixed at the body.	 Fig 3
4. Removing the Drain Pan. ① Loosen the screw fixed at the body. (Fig 4) ② Unhook the right part of Drain Pan.	
5. Removing the Indoor Coil. ① Loosen four screws fixed at the indoor coil of left and right side. (Fig 5) ② Loosen the screw fixed at the bracket tube of the back side. (Fig 6) ③ Remove the indoor coil. (Fig. 6-1)	 ig 5
6. Removing the fan motor. ① Loosen two screws fixed at the holder moter of left and right side. (Fig 7, 8) ② Loosen the screw fixed at the fan motor and the blower. ③ Renove the fan motor.	 ig 6
	g 6-1

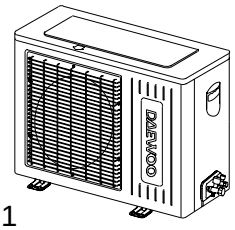
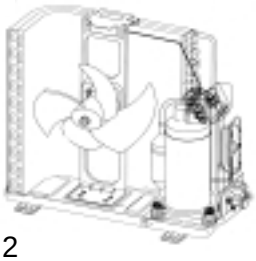
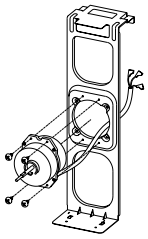
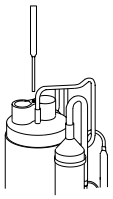
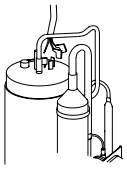
PROCEDURES	PHOTOS
7. Removing the blower. ① Loosen the screw fixed at the holder bearing. ② Remove the blower.	 Fig 7  Fig 8

◆ DSB-183LH-R/DSB240LH-R/DSA-240LH-R

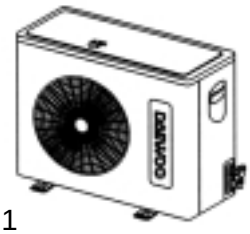
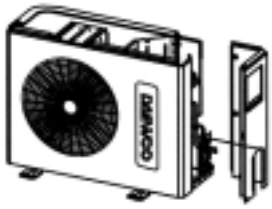
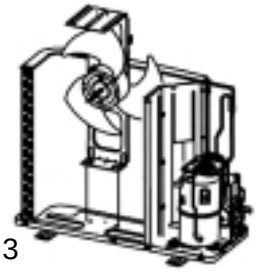
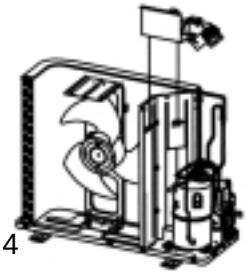
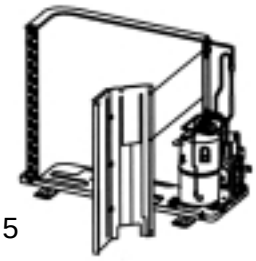
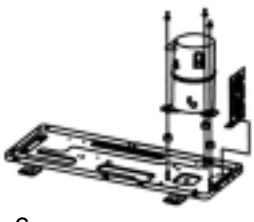
PROCEDURES	PHOTOS
1. Stop the operation of the Air conditioner and disconnect the power cord from the wall outlet.	 Fig 1
2. Removing the Insert Grille and Frame Grille. (Fig 1~2) ① Draw up the Insert Grille and remove it. ② Loosen the screws fixed at the Cover Ter-Block. ③ Loosen two screw at the Frame Grille. ④ Remove the Frame Grille.	 Fig 2
3. Removing the Control Box. (Fig 3) ① Remove room and coil thermistors. ② Disconnect the fan motor lead wire from connection at the Control PCB. ③ Disconnect the stepping motor lead wire from connection at the Control PCB. ④ Remove the select switch from connection at the Control PCB. ⑤ Loosen the screw fixed at the ground wire. ⑥ Remove the Control Box	 Fig 3  Fig 4
4. Removing the Drain Pan. (Fig 4) ① Disconnect the Body drain hole. (left and right Body) ② Disconnect three hooks and remove the Drain Pan.	 Fig 5
5. Removing the Indoor Evaporator. (Fig 5~6) ① Remove the hook fixed at the Plate mounting of the back of Body. ② Remove Indoor Evaporator.	 Fig 6
6. Removing the Cross Flow Fan. (Fig 7) ① Remove the set screw fixed at the Motor shaft. ② Remove the Cross Flow Fan.	 Fig 7
7. Remove the Motor IDU and the Bearing Plastic.	

2 OUTDOOR UNIT

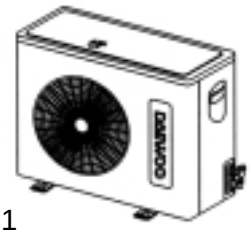
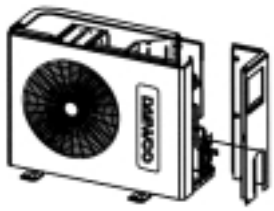
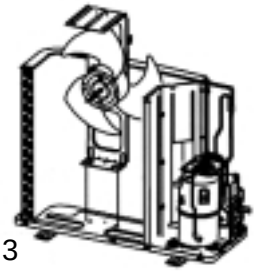
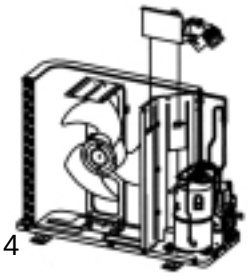
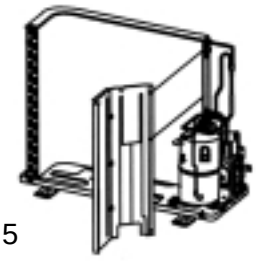
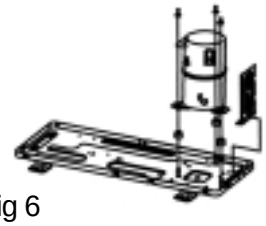
◆ DSB-070LH/071LH/DSB-091LH/092LH/DSB-121LH/122LH/123LH

PROCEDURES	PHOTOS
1.Stop the operation of the air conditioner and disconnect the wire from Indoor Unit to Outdoor Unit. 2. Disassemble the case. (Fig 1~2) ① Remove the Top Panel. (Loosen thirteen screws) ② Remove the Front Cabinet. (Loosen six screws) ③ Remove the Side Cabinet. (Loosen seven screws) ④ Remove the Guide Support. (Loosen two screws) 3. Removing the Propeller Fan. (Fig 3) ① Loosen the Nut fixed at the the Propeller Fan. ② Remove the Plain Washer. ③ Remove the Propeller Fan. 4. Removing the Motor ODU. (Fig 4) ① Loosen four screws fixed at the Bracket Motor. ② Disconnect the wire at the Control Panel and remove the Motor ODU. 5. Removing the Dual Capacitor. (Fig 5) ① Disconnect the wire at the Control Panel. ② Loosen the screw fixed at the Clamp Capacitor. ③ Remove the Dual Capacitor. 6. Removing the Over load Protector. (Fig 6~7) ① Loosen the Hex Nut at Terminal Cover. ② Remove the Terminal Cover. ③ Remove the wire at the Over load Protector. ④ Remove the Over load Protector.	 Fig 1  Fig 2 Fig 3  Fig 4 Fig 5  Fig 6  Fig 7

◆DSB-182LH/182LH-R/DSA-183LH-R/DSB-183LH-R

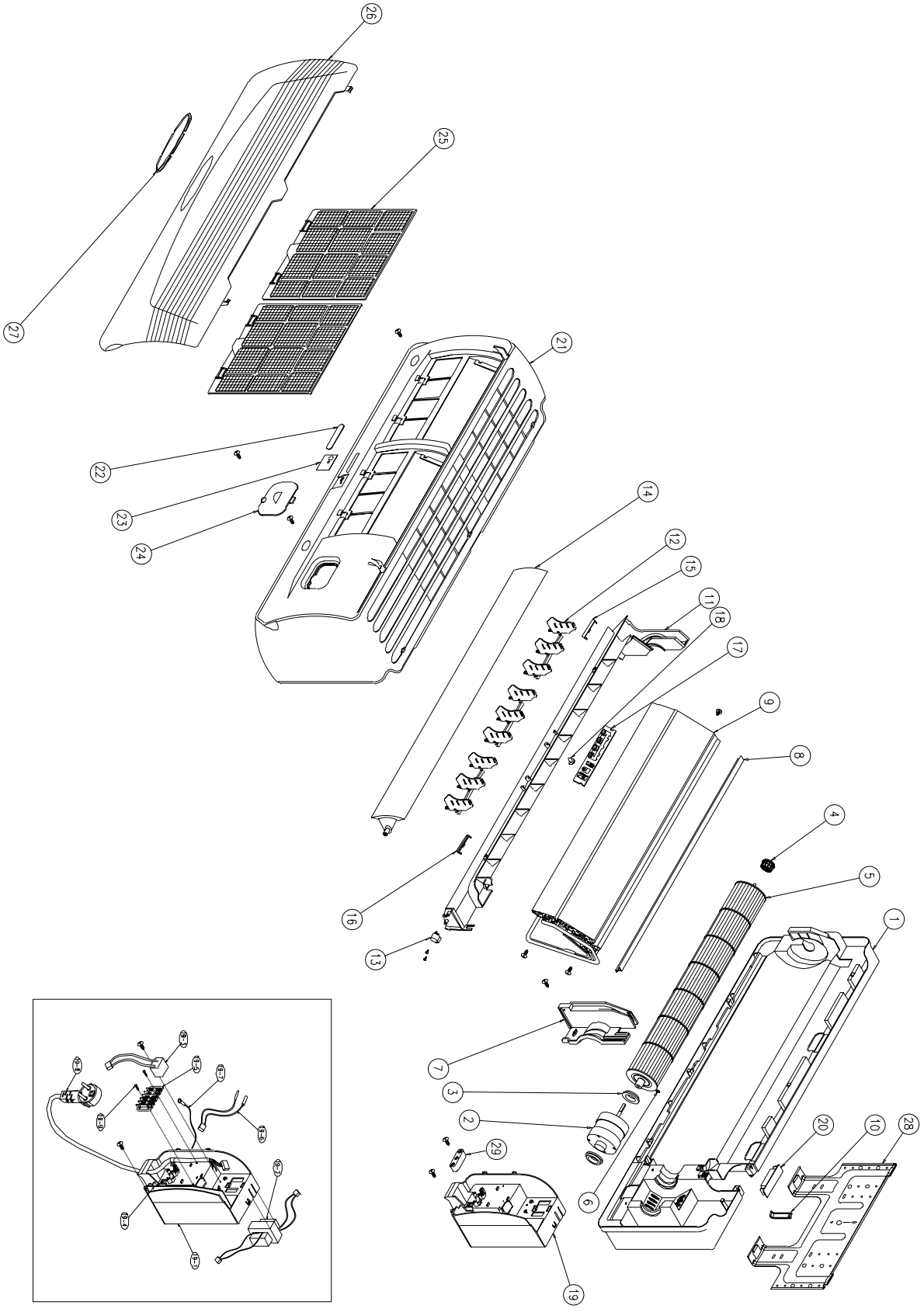
PROCEDURES	PHOTOS
1.Stop the operation of the air conditioner and dis connect the wire from in door unit to out door unit. 2. Disassemble the case. (Fig 1~2) ① Remove the Top Panel. ② Remove the Side Cabinet. ③ Remove the Front Cabinet. 3. Removing the Propeller Fan. (Fig 3) ① Loosen the screw fixed at the motor bracket. ② Remove the Plain Washer. ③ Remove the Propeller Fan. 4. Remove the panel control. (Fig 4) ① Disconnect the wire at the control panel. ② Loosen the screw fixed at the panel control. ③ Remove the parts on panel control. 5. Remove the partition panel. (Fig 5) ① Loosen four screws at the bracket motor. ② Disconnect the wire at the control panel. 6. Removing the Over load Protector. (Fig 6) ① Remove the cocondenser ② Loosen three volts at compressor. ③ Remove the compressor.	 Fig 1  Fig 2  Fig 3  Fig 4  Fig 5  Fig 6

◆ DSB-240LH-R/DSA-240LH-R

PROCEDURES	PHOTOS
1.Stop the operation of the air conditioner and disconnect the wire from in door unit to out door unit. 2. Disassemble the case. (Fig 1~2) ① Remove the Top Panel. ② Remove the Front Cabinet. ③ Remove the Side Cabinet and Back Cabinet. 3. Removing the Propeller Fan. (Fig 3) ① Loosen the screw fixed at the motor bracket. ② Remove the Plain Washer. ③ Remove the Propeller Fan. 4. Temove the panel control. (Fig 4) ① Disconnect the wire at the control panel. ② Loosen the screw at the panel control. ③ Remove the parts on the panel control. 5. Remove the partition panel. (Fig 5) ① Loosen four screws at the bracket motor. ② Disconnect the wire at the control panel. 6. Removing the Over load Protector. (Fig 6) ① Remove the cocondenser ② Loosen three volts at the compressor. ③ Remove the compressor.	 Fig 1  Fig 2  Fig 3  Fig 4  Fig 5  Fig 6

3 EXPLODED DIAGRAM (Indoor Unit)

◆ **DSB-070LH/DSB-091LH**

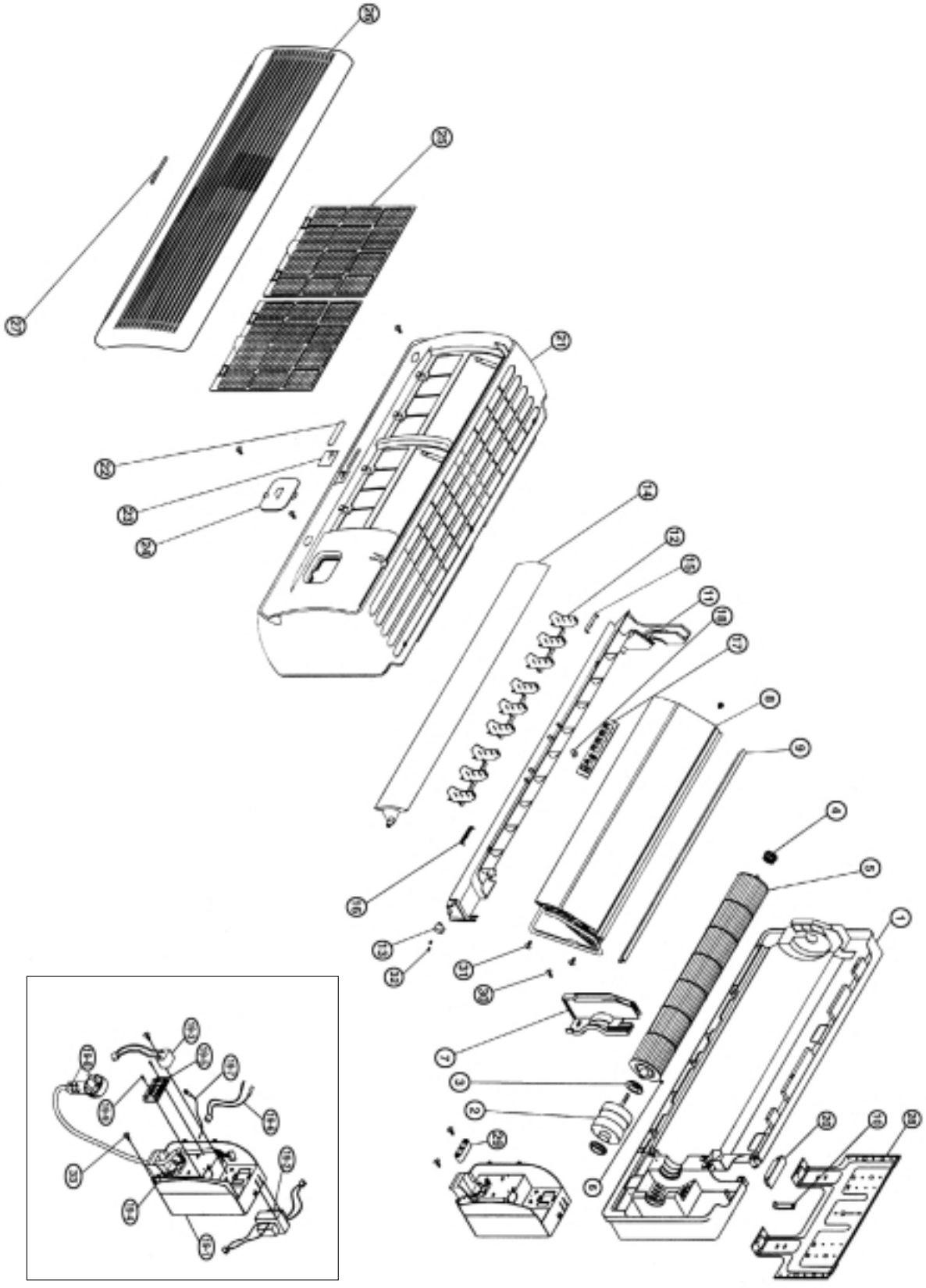


◆ DSB-070LH/DSB-091LH PART LIST(INDOOR UNIT)

✔ **Caution**: In this Service Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service information Center(http://svc.dwe.co.kr)

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100400300	BODY	1	HIPS T2.0	
2	3108004700	MOTOR IDU	1	IC-8417DWKF5A	
3	3101500400	CUSHION MOTOR	2	CR Ø30	
4	3106400400	BEARING PLASTIC ASS'Y	1		
5	3100053700	FAN CROSS FLOW ASS'Y	1	Ø90.0xL540	
6	7485401012	SET SCREW	1	6S-4x10-E MFZN	
7	3103002600	HOLDER MOTOR	1	HIPS T2.0	
8	3100053800	EVAPORATOR ASS'Y	1		
9	3102501200	EVAP. GUIDE	1	PVC T1.0 L536	
10	3100603800	BRACKET PIPE	1	HIPS T2.0	
11	3108100800	PAN DRAIN	1	HIPS T2.0	
12	3106501600	BLADE VERTICAL	3	P.P. T1.5	
13	3108003900	MOTOR STEPPING	1	MP24GA or GSP-24SW-061	
14	3107600400	FLAP	1	HIPS T2.5	
15	3101404800	COVER WIRE L	1	HIPS	
16	3101404900	COVER WIRE R	1	HIPS	
17	3100054200	LED PCB ASS'Y	1		
18	3100901600	CAP RUBBER	1	SILICON	
19-1	3100508400	CONTROL BOX	1	P.P.+G.F.20%	
19-2	5EPV050120	TRANSFORMER	1	DWA-220B	
19-3	3106900300	CAPACITOR SH. M. B	1	1.0μF 400VAC	
19-4	3100054400	CONTROL PCB ASS'Y	1		
19-5	3108912310	TERMINAL BLOCK	1	SN-DBW-05P	
19-6	3104896300	SENSOR ID ASS'Y	1	PTM-KD-43C-D2	
19-7	3102797910	HARNESS	1	I.D EARTH	
19-8	31013A24B1	POWER CORD ASS'Y	1	16A 250V	
19-9	7111301611	SCREW TAPPING	2	T1S PAN 3x16 MFZN	
20	3100400400	BODY-TOP	1	HIPS T2.0	
21	3102200800	FRAME GRILLE	1	HIPS T2.5	
22	3104508700	PLATE LED	1	PC SHEET T0.2	
23	3104510200	PLATE SWITCH	1	PC SHEET T0.2	
24	3101404600	COVER TERMINAL BLOCK	1	HIPS T2.0	
25	3102200900	FILTER FRAME	2	P.P. T2.0	
26	3102402200	INSERT GRILLE	1	HIPS T2.5	
27	3101403900	COVER LED	1	ABS(TRANSPARENCY) T2.0	
28	3104507200	PLATE MOUNTING	1	SBHG 1 T0.7	
29	3101203000	CLAMP WIRE	1	P.P.+G.F.20%	
30	7S422X40B1	SPECIAL SCREW	8	TT2 TRS SE 4x12 MFZN	
31	7112400611	SCREW TAPPING	2	T1S TRS 4x6 MFZN	
32	7141400811	SCREW TAPPING	2	T2 PAN 4x8 MFZN	
33	7122401211	SCREW TAPPING	1	T2S TRS 4x12 MFZN	

◆ DSB-071LH/DSB-092LH

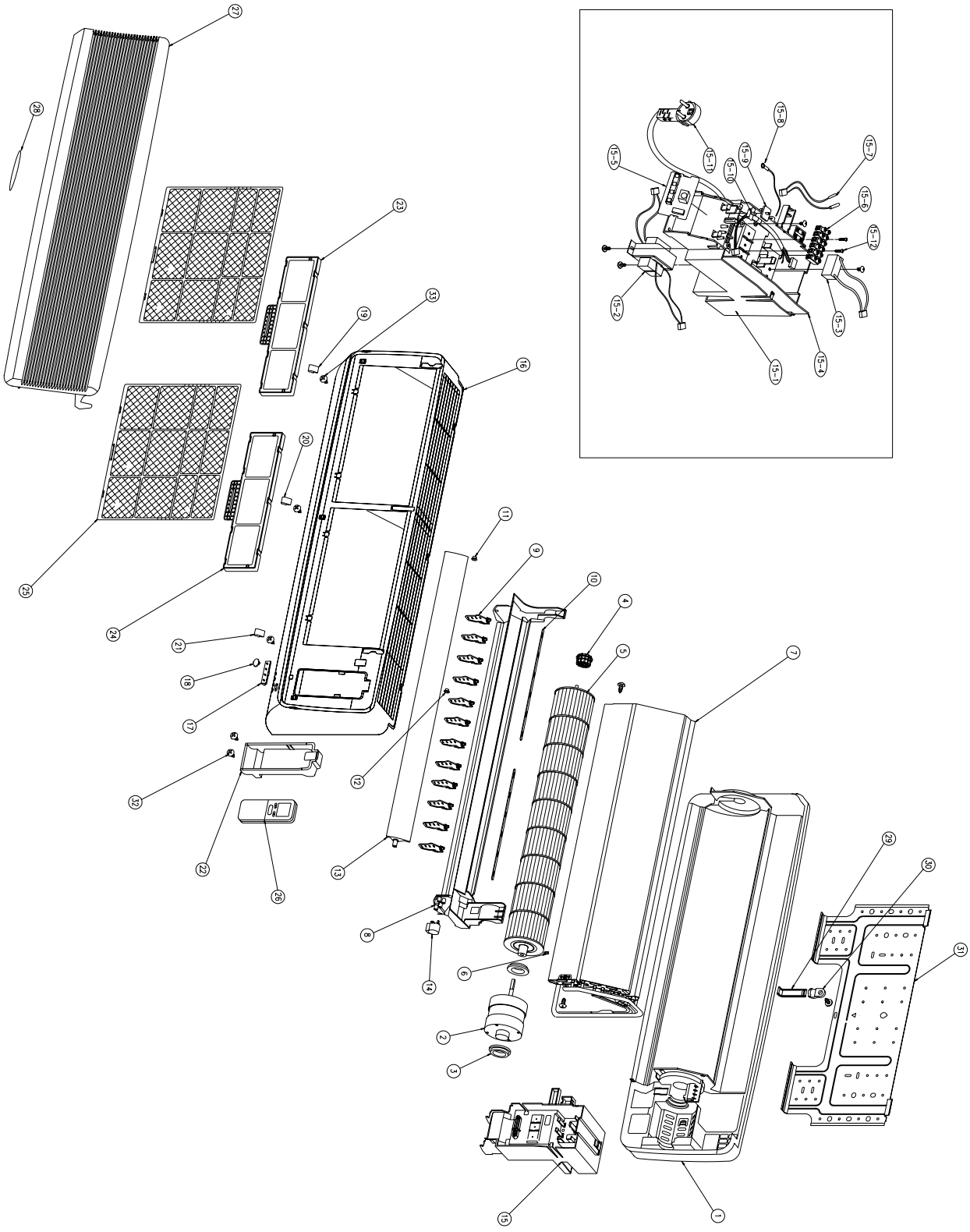


◆ DSB-071LH/DSB-092LH PART LIST(INDOOR UNIT)

✔ **Caution**: In this Service Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service information Center(http://svc.dwe.co.kr)

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100400300	BODY	1	HIPS T2.0	
2	3108004700	MOTOR IDU	1	IC-8417DWKF5A	
3	3101500400	CUSHION MOTOR	2	CR Ø30	
4	3106400400	BEARING PLASTIC ASS'Y	1		
5	3100053700	FAN CROSS FLOW ASS'Y	1	Ø90.0xL540	
6	7485401012	SET SCREW	1	6S-4x10-E MFZN	
7	3103002600	HOLDER MOTOR	1	HIPS T2.0	
8	3100053800	EVAPORATOR ASS'Y	1		
9	3102501200	EVAP. GUIDE	1	PVC T1.0 L536	
10	3100603800	BRACKET PIPE	1	HIPS T2.0	
11	3108100800	PAN DRAIN	1	HIPS T2.0	
12	3106501600	BLADE VERTICAL	3	P.P. T1.5	
13	3108003900	MOTOR STEPPING	1	MP24GA or GSP-24SW-061	
14	3107600400	FLAP	1	HIPS T2.5	
15	3101404800	COVER WIRE L	1	HIPS	
16	3101404900	COVER WIRE R	1	HIPS	
17	3100054200	LED PCB ASS'Y	1		
18	3100901600	CAP RUBBER	1	SILICON	
19-1	3100508400	CONTROL BOX	1	P.P.+G.F.20%	
19-2	5EPV050120	TRANSFORMER	1	DWA-220B	
19-3	3106900300	CAPACITOR SH. M. B	1	1.0μF 400VAC	
19-4	3100054400	CONTROL PCB ASS'Y	1		
19-5	3108912310	TERMINAL BLOCK	1	SN-DBW-05P	
19-6	3104896300	SENSOR ID ASS'Y	1	PTM-KD-43C-D2	
19-7	3102797910	HARNESS	1	I.D EARTH	
19-8	31013A24B1	POWER CORD ASS'Y	1	16A 250V	
19-9	7111301611	SCREW TAPPING	2	T1S PAN 3x16 MFZN	
20	3100400400	BODY-TOP	1	HIPS T2.0	
21	3102200800	FRAME GRILLE	1	HIPS T2.5	
22	3104508700	PLATE LED	1	PC SHEET T0.2	
23	3104510200	PLATE SWITCH	1	PC SHEET T0.2	
24	3101404600	COVER TERMINAL BLOCK	1	HIPS T2.0	
25	3102200900	FILTER FRAME	2	P.P. T2.0	
26	3112400800	INSERT GRILLE	1	HIPS T2.5	
27	3115500500	WINDOW LED	1		
28	3104507200	PLATE MOUNTING	1	SBHG 1 T0.7	
29	3101203000	CLAMP WIRE	1	P.P.+G.F.20%	
30	7S422X40B1	SPECIAL SCREW	8	TT2 TRS SE 4x12 MFZN	
31	7112400611	SCREW TAPPING	2	T1S TRS 4x6 MFZN	
32	7141400811	SCREW TAPPING	2	T2 PAN 4x8 MFZN	
33	7122401211	SCREW TAPPING	1	T2S TRS 4x12 MFZN	

◆ DSB-121LH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◆ DSB-121LH/122LH PART LIST(INDOOR UNIT)

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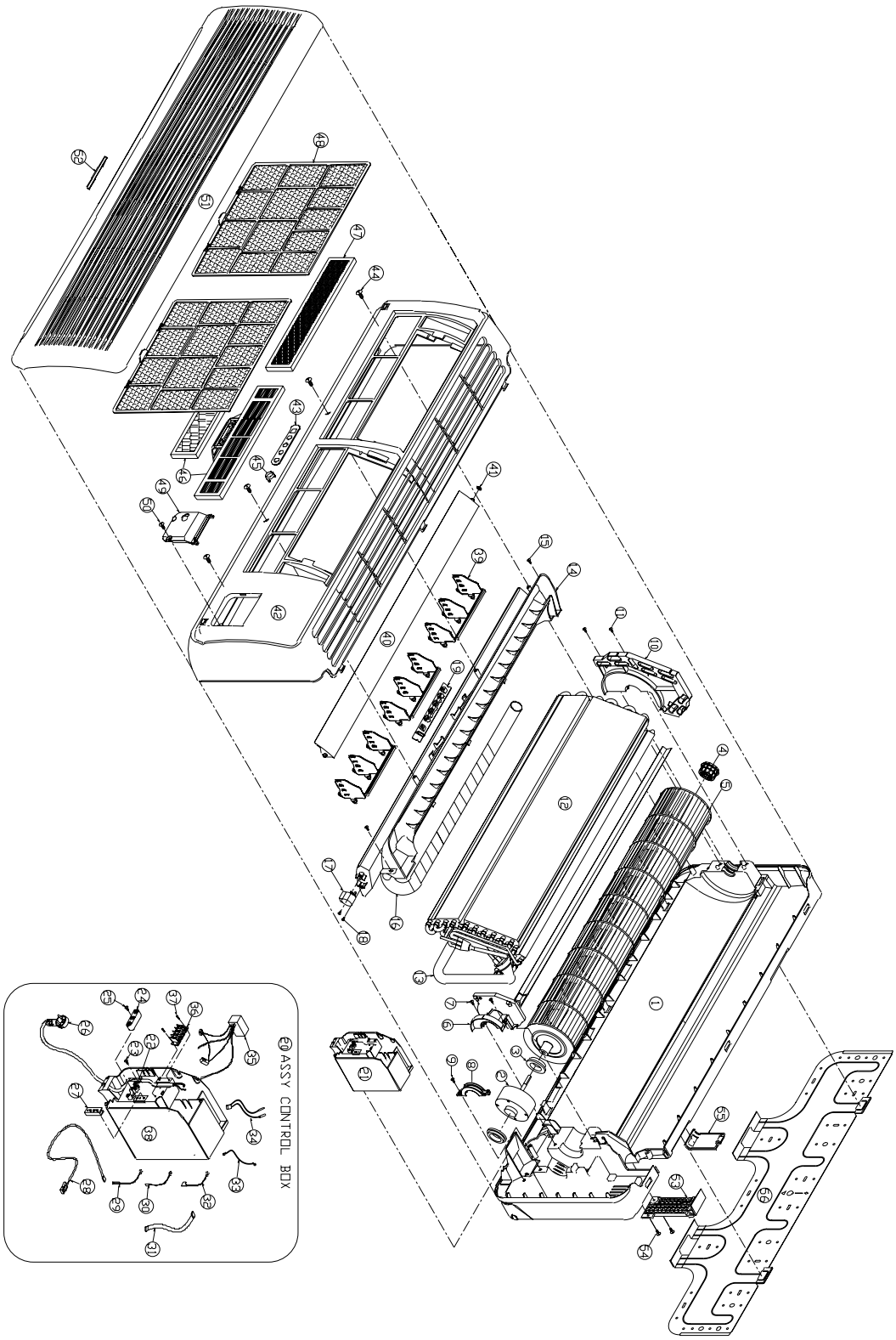
No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100400201	BODY	1	ABS or HIPS	
2	3108001220	MOTOR IDU	1	220V 50/60Hz	
3	3101500400	CUSHION MOTOR	2	CR	
4	3106400200	BEARING PLASTIC ASS'Y	1		
5	3100014400	FAN CROSS FLOW ASS'Y	1	SAN+G. F20%	
6	7485401012	SET SCREW	1	6S-4 X 10-E	
7	3100014300	EVAPORATOR ASS'Y	1		
8	3108100401	PAN DRAIN	1	ABS	
9	3106500800	BLADE VERTICAL MN	12	ABS	
10	3106300800	BAR BLADE	2	ABS	
11	3100700800	BUSHING L	1	POM	
12	3100700700	BUSHING R	1	POM	
13	3107600300	FLAP	1	ABS	
14	3108000100	MOTOR STEPPING	1	MG28GA	
15	3100038210	CONTROL BOX ASS'Y	1		BUYER
15-1	3100503101	BOX CONTROL	1	P.P+G.F30%	
15-2	5EPV050100	TRANS FORMER	1	DWA220A-50/60Hz	
15-3	3106900300	CAPACITOR SH.M.B	1	1.0μF 400VAC	
15-4	3100054400	CONTROL PCB ASS'Y	1		
15-5	3100054200	LED PCB ASS'Y	1		
15-6	3108912301	TERMINAL BLOCK	1	SN-DBW-05P	
15-7	3104896300	SENSOR I.D ASS'Y	1	PTM-KD43C-D2	

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
15-8	3102797910	HARNESS	1	I.D EARTH	
15-9	3103400300	KNOB RESET SWITCH	1	ABS	
15-10	3100024000	MODE SELECT ASS'Y	1	TS-11 & HARNESS	
15-11	3101395060	POWER CORD ASS'Y	1		BUYER
15-12	7111301611	TAPPING SCREW	2	T1S PAN 3 X 16 MFZN	
16	3102200401	FRAME	1	ABS	BUYER
17	3103600300	LAMP INDICATE	1	MIPS	
18	3105500500	WINDOW SENSOR	1	ACRIL	
19	3100901000	CAP FRAME L	1	ABS	
20	3100900900	CAP FRAME C	1	ABS	
21	3100900800	CAP FRAME R	1	ABS	
22	3101401701	COVER TER-BLOCK	1	ABS	
23	3100017800	FILTER ELECTRO ASS'Y	1		
24	3100017900	FILTER CARBON ASS'Y	1		
25	3100017700	FILTER PRE ASS'Y	2		
26		REMOCON ASS'Y	1		BUYER
27	3102401500	INSERT GRILLE	1	ABS	
28	3107500200	EMBLEM	1	URETANE	BUYER
29	3100602400	BRACKET PIPE	1	HIPS	
30	3101201200	CLAMP BRACKET PIPE	1	HIPS	
31	3104503900	PLATE MOUNTING	1	SBHG1	
32	3106001600	SPECIAL SCREW	1	T2 4 X 16 MFNI LOCKING	
33	7S422X40B1	SPECIAL SCREW	13	TT2 TRS SE 4x12 MFZN	

* NO 15, 15-11, 16, 26, 28 Will be changed depend on export destination & buyer requirements.

◆ DSB-123LH



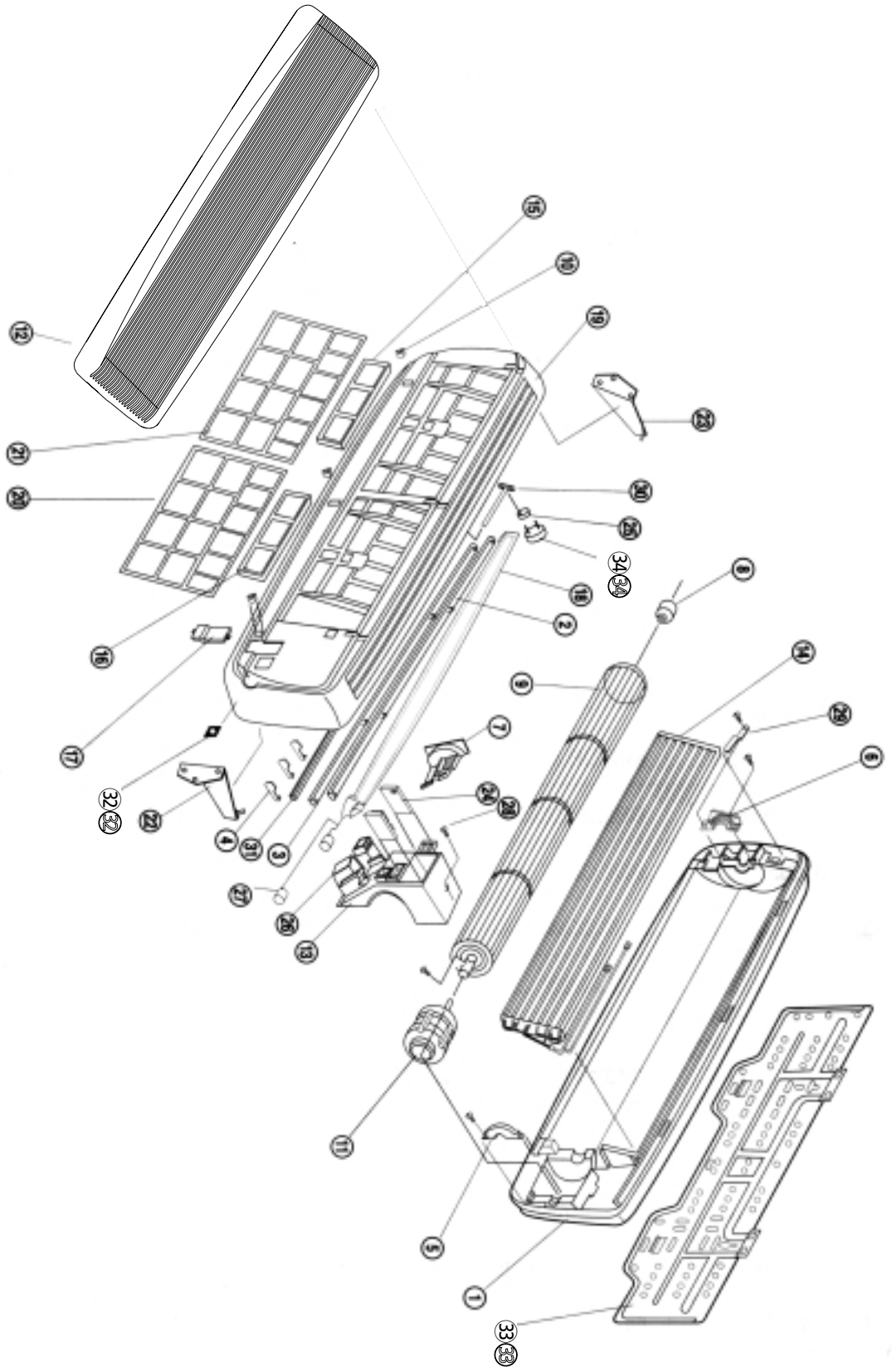
◆ DSA-123LH PART LIST (INDOOR UNIT)

✔ **Caution**: In this Service Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service information Center(http://svc.dwe.co.kr)

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3110400300	BODY	1	HIPS T2.0 (GY171A)	
2	3110078100	MOTOR IDU ASSY	1	ASSY	
3	3118003500	MOTOR IDU	1	RB13B(220V, 50/60V)	
4	3106400400	BEARING PLASTIC ASSY	1	DSB-123L/LH/PH	
5	3110046000	FAN CROSS FLOW ASS`Y	1	SAN+G.F 30% •'100xL615	
6	3113000400	HOLDER MOTOR L	1	HIPS T2.0	
7	7172401211	SPECIAL SCREW	2	TT2 TRS 4*12 MFZN	
8	3113000500	HOLDER MOTOR R	1	HIPS T2.0	
9	7172401211	SPECIAL SCREW	1	TT2 TRS 4*12 MFZN	
10	3114503300	PLATE EVAP. L	1	PP T2.0(GY176A)	
11	7172401211	SPECIAL SCREW	2	TT2 TRS 4*12 MFZN	
12	3110054100	EVAPORATOR	1	ASSY (3R-3C, FPI=1.5)	
13	3113309800	PIPE ARTRON HOSE	1	O.D •'32 I.D •'20 T=6, F-PE	
14	3118100500	PAN DRAIN	1	HIPS T2.0(GY176A)	
15	7172401211	SPECIAL SCREW	2	TT2 TRS 4*12 MFZN	
16	3103210010	HOSE DRAIN ASSY	1	ASSY	
17	3108003910	MOTOR STEPPING	1	MP24GA	
18	7141400811	SCREW TAPPING	2	T2 PAN M4x8 MFZN	
19	3104301700	LED PCB ASS`Y	1	DSB-123L/LH/PH	
20	3110059400	CONTROL BOX ASS'Y	1	DSB-123L	
	3110059410		1	DSB-123LH	
	3110059420		1	DSB-123PH	
21	3110504000	CONTROL BOX	1	HIPS T2.0 (BLACK)	
22	3101204600	CLAMP POWER CORD	1	DA-4N	
23	7172401211	SPECIAL SCREW	1	TT2 TRS 4*12 MFZN	
24	3111200800	CLAMP WIRE	1	HIPS T2.0 (BLACK)	
25	7172401211	SPECIAL SCREW	1	TT2 TRS 4*12 MFZN	
26	3111312110	POWER CORD ASSY	1	DSB-123L/LH	
27	3114503900	PLATE EARTH	1	SGCC T1.0x26xP46	
28	3102702201	HARNESS TH3-1	1		
29	3112716000	HARNESS 4W SIGNAL	1		

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
30	3112715900	HARNESS MOTOR SIGNAL	1		
31	3112716100	HARNESS LED PCB	1		
32	3112715800	HARNESS COMP SIGNAL	1		
33	3112716250	HARNESS I/D EARTH	1	GREEN/YELLOW	
34	3104896300	SENSOR I/D ASSY	1		
35	3100033320	VOLTAGE GENERATOR	1	6.2KV	
36	3118900200	TERMINAL BLOCK	1	JXO-CH-2P (DSB-123L)	
	3108914200		1	JXO-CH-4P (DSB-123LH/PH)	
37	7111301611	SCREW TAPPING	2	T1S PAN 3x16 MFZN	
38	3114302020	CONTROL PCB ASS`Y	1	DSB-123L	
	3114302090		1	DSB-123LH	
	3114302210		1	DSB-123PH	
39	3116501000	BLADE VERTICAL	3	P.P T1.5 (GY176A)	
40	3117600100	FLAP	1	HIPS T2.0 (GY171A)	
41	3100700700	BUSHING R	1	DSB-123L/LH/PH	
42	3112200700	FRAME GRILLE	1	HIPS T2.5	
43	3114504200	PLATE LED	1	PC SHEET T0.2	
44	7172401211	SPECIAL SCREW	4	TT2 TRS 4*12 MFZN	
45	3103401400	KNOB SWITCH	1	DSB-240L/LH ∞¯øÎ	
46	3101902610	FILTER ELECTRO ASSY	1	WHITE	
	3100033200	DUST COLLECTOR	1	DSB-123PH	
47	3101902510	FILTER CARBON ASSY	1	BLACK	
48	3111901400	FILTER FRAME	2	P.P T2.0 (BLACK)	
49	3111403400	COVER TERMINAL BLOCK	1	HIPS T2.0	
50	7S422X40B1	SCREW TAPPING	1	TT2 TRS 4*12 MFZN	
51	3112401900	GRILLE INSERT	1	HIPS T2.5 (GY171A)	
52	3111403700	COVER LED	1	ABS T2.0	
53	3110400200	BODY TOP	1	HIPS T2.0	
54	7S422X40B1	SCREW TAPPING	3	TT2 TRS 4*12 MFZN	
55	3110603100	BRACKET PIPE	1	HIPS T2.0	
56	3114503800	PLATE MOUNTING	1	SGCC T0.8	

◆DSB-182LH/LH-R



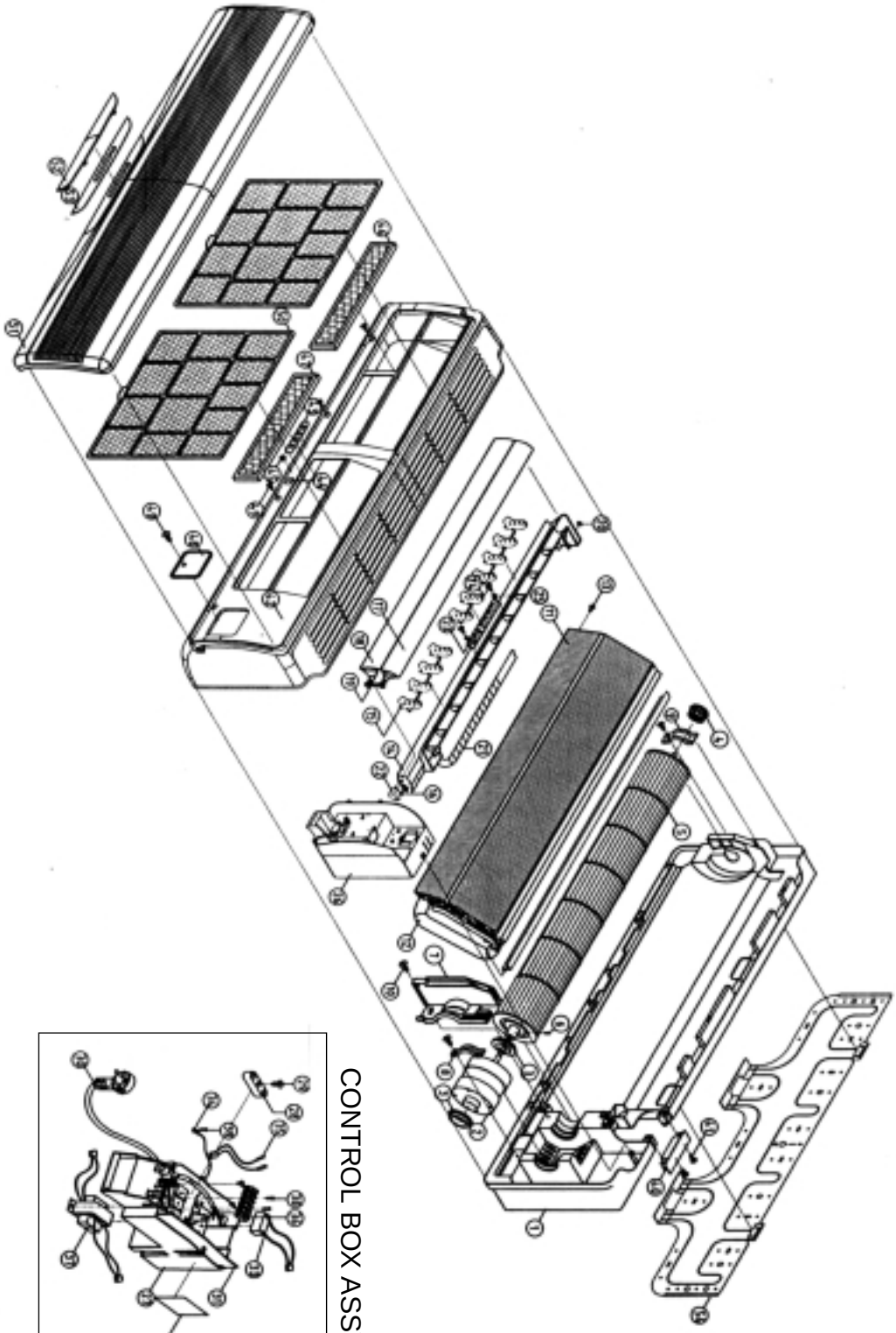
◆ DSB-182LH/LH-R Parts List (Indoor Unit)

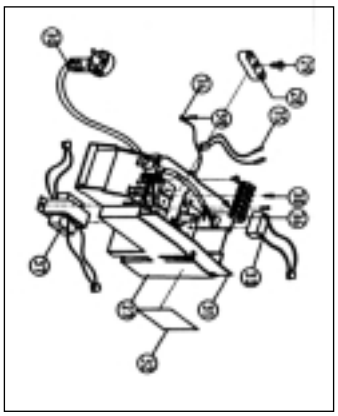
✔ **Caution:** In this Service Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service information Center(http://svc.dwe.co.kr)

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100400101	BODY	1	ABS	
2	3107600100	FLAP TOP	1	ABS	
3	3107600200	FLAP UNDER	1	ABS	
4	3106500400	BLADE VER	16	ABS	
5	3103000500	HOLDER MOTOR R	1	ABS	
6	3103000700	HOLDER BEARING	1	ABS	
7	3103000600	HOLDER MOTOR L	1	ABS	
8	3106400100	BEARING OILESS	1		
9	3101800200	FAN CROSS FLOW	1	Ø100X861L	
10	3102400800	GRILLE LATCH	3	POM	
11	3108000311	MOTOR ASS'Y	1	IC-9425 DWKC 5C	
12	3112400400	GRILLE INSERT	1	ABS	
13	3100501000	BOX CONTROL	1	ABS (V0)	
14	3107410000	EVA ASS'Y	1		
15	3101930010	FILTER ELECTRO ASS'Y	1		
16	3101940010	FILTER CARBON ASS'Y	1		
17	3101401300	COVER TERMINAL BLOCK	1	ABS	
18	3108100100	PAN DRAIN	1	ABS	
19	3102200200	FRAME GRILLE	1	ABS	
20	3100000100	FILTER PRE R ASS'Y	1		

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
21	3100000200	FILTER PRE L ASS'Y	1		
22	3102900100	HINGE R-A	1	POM	
23	3102900300	HINGE L-A	1	POM	
24	3100001000	M-PCB ASS'Y	1		
25	3107800100	LINK VER CAM	1	P.O.M	
26	3104395400	F-PCB ASS'Y	1		
27	3108004300	MOTOR STEPPING	2	MP28GA/GSP-24SW-06/ST-28	L=400mm
28	3108912320	TERMINAL BLOCK	1	DBW-4P	
29	3107400300	EVA BRKT L	1	SGCC T1.0	
30	3107800200	LINK VER A	1	ABS	
31	3107800400	LINK VER C	1	ABS	
32	3105500400	PLT WINDOW SWITCH	1		
33	3104500300	PLATE MOUNTING	1	SGCC T0.8	
34	3108004310	MOTOR STEPPING	1	MP28GA/GSP-24SW-06/ST-28	L=1300mm

◆ DSB-183LH-R/DSA-183LH-R/DSB-240LH -R/DSA-240LH-R





CONTROL BOX ASSY

◆ DSB-183LH-R/DSA-183LH-R/DSB-240LH-R/DSA-240LH-R PART LIST (INDOOR UNIT)

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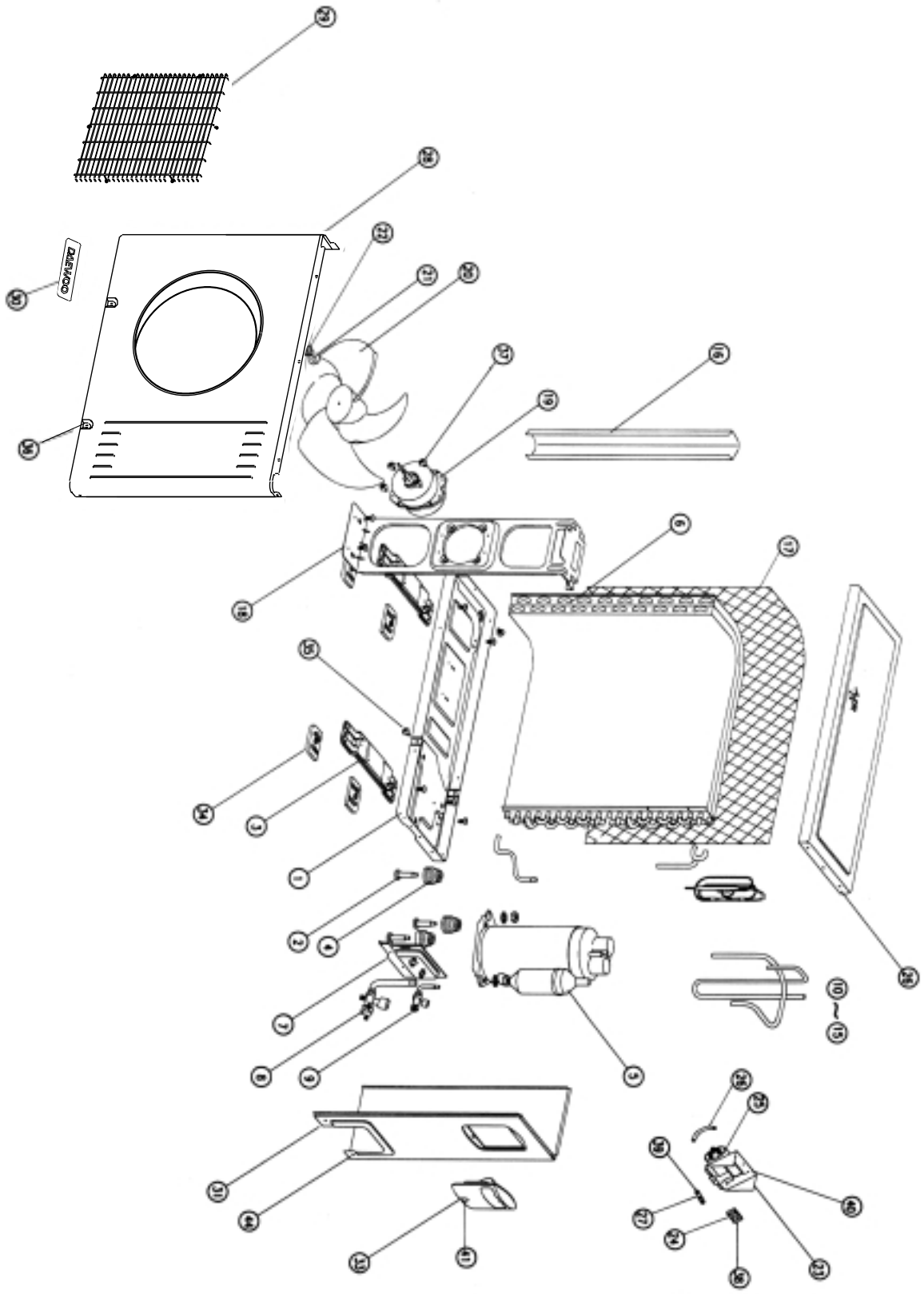
No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100400600	BODY	1		
2	3108007500	MOTOR FCU	1	IC-9430DWKG7A	
3	3101500400	CUSHION MOTOR	2	CR I.D30 (R/W45)	
4	3106400200	BEARING PLASTIC ASSY	2	O.D37 .0*I.D6.0	
5	3100076400	FAN CROSS FLOW ASSY	1	Ø100XL864	
6	7485401012	SET SCREW	1	6S-4*10-E MFZN(BLACK)	
7	3103003800	HOLDER MOTOR L/B	1		
8	3103003900	HOLDER MOTOR R	1		
9	3103004000	HOLDER BEARING	1	ABS T2.5	
10	7172401211	SCREW TAPPING	3	TT2 TRS 4*12 MFZN	
11	3100089100	EVAPORATOR	1		
12	3104440100	PIPE ARTIRON HOSE	1	O.D:42 I.D:26 T=7, F-PE	
13	7172401211	SCREW TAPPING	1	TT2 TRS 4*12 MFZN	
14	3108101400	PAN DRAIN	1		
15	3106502700	BLADE VERTICAL (M)	2.5		
16	7141400811	SCREW TAPPING	1	T2 PAN 4X8 MFZN	
17	3107600500	FLAP UP	2		
18	3107600600	FLAP DOWN	1		
19	3107801700	LINK FLAP	1		
20	3100702000	BUSHING	2		
21	3103200800	HOSE DRAIN ASSY	1		
22	3108007600	MOTOR STEPPING	1	GSP-24RW-062	
23	3104301700	LED PCB ASSY	1	150X24.5X1.6T	
24	7112300611	SCREW TAPPING	2	T1, TRS M3*6 MFZN	
25	3106002900	WASHER PLASTIC	2	ID Ø3	
26	3100077000	CONTROL BOX ASSY	1		
27	3100510700	BOX CONTROL	1		
28	3101200400	CLAMP POWER CORD	1	DA-5N	
29	7172401211	SCREW TAPPING	2	TT2 TRS 4*12 MFZN	
31	3104300830	CONTROL PCB ASSY	1		

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
32	2150013200	AL FOIL EMI	0.1	AL100P (W100XL100)	
33	3106902400	CAPACITOR SH.M.B	1	2.0MF 400V	
34	3102797910	HARNESS EARTH	1	GREEN/YELLOW L170mm	
35	3104896300	SENSOR ID ASSY	1	PTM-KD43C-D2, L330	
36	3108912320	TERMINAL BLOCK	1	SN-DBW-4P	
37	5EPV050120	TRANSFORMER	1	DWA-220B	
38	7172401211	SCREW TAPPING	2	TT2 TRS 4*12 MFZN	
39	7S422X40B1	SPECIAL SCREW	2	TTS TRS SE 4*12 MFZN	
40	3100400700	BODY TOP	1		
41	7172401211	SCREW TAPPING	2	TT2 TRS 4*12 MFZN	
42	3102201400	FRAME GRILLE	1		
43	3104512400	PLATE LED	1	PC SHEET T0.2	
44	3104510200	PLATE SWITCH	1	PC SHEET T0.2	
45	3103401400	KNOB SWITCH	1		
46	3100017810	FILTER ELECTRO ASSY	1		
47	3100017910	FILTER CARBON ASSY	1		
48	3101406820	COVER T/BLOCK	1	ABS	
49	7112401211	SCREW TAPPING	4	T1 TRS 4*12 MFZN	
50	3102201500	FILTER FRAME	2	J360A	
51	3102403500	GRILLE INSERT	1		
52	3101406900	COVER LED	1		
53	3104512600	PLATE INSERT GRILLE	1	PET T=0.1	
54	3104511800	PLATE MOUNTING	1		

4 EXPLODED DIAGRAM (Outdoor Unit)

◆ **DSB-070LH/071LH/DSB-091LH/092LH/DSB-121LH/122LH/123LH**



DSB-070LH/071LH/DSB-091LH/092LH/DSB-121LH/122LH/123LH PART LIST(OUTDOOR UNIT)

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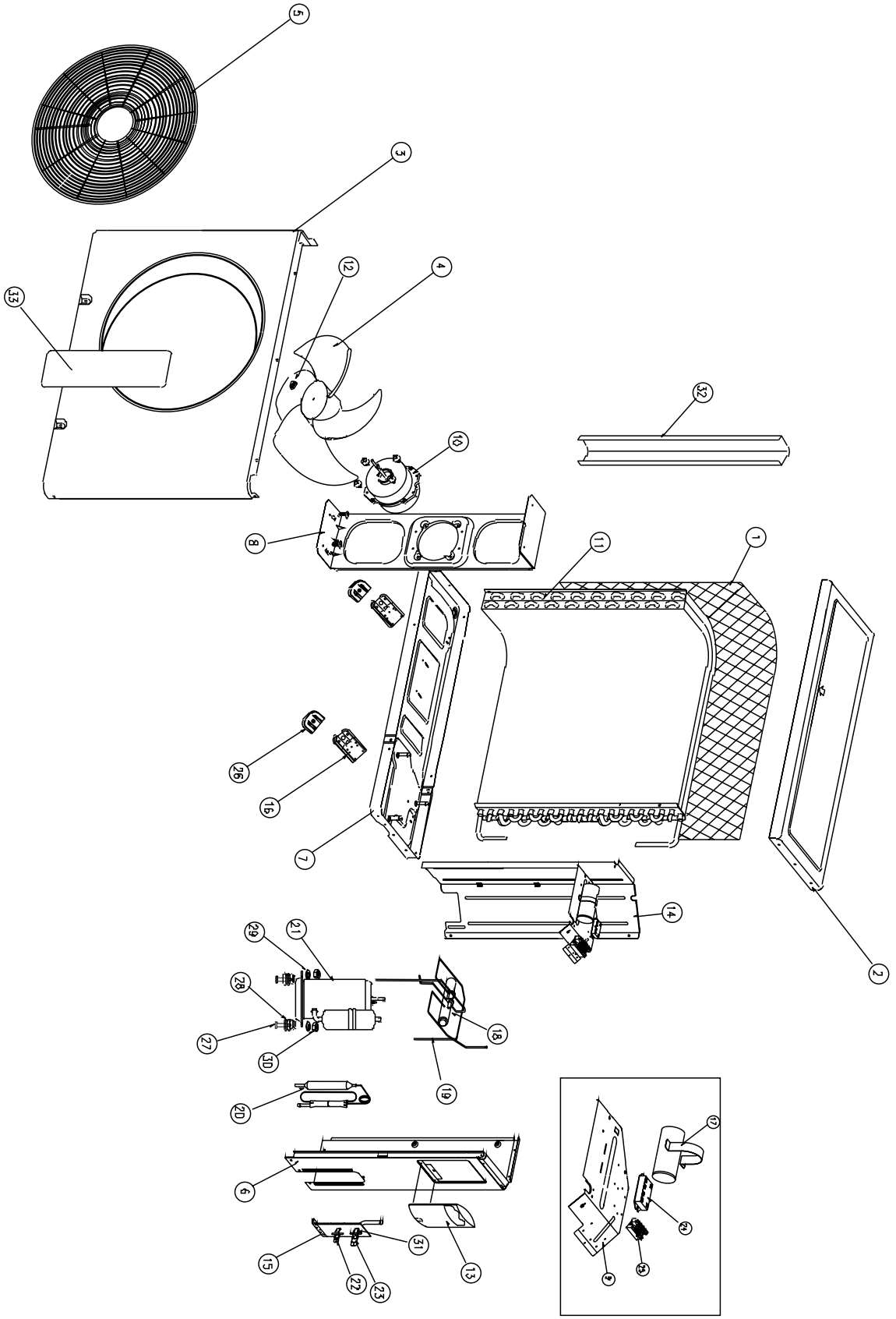
No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100300511	PAN BASE	3	SECC T1.2	071LH(DW COMP RBB075A011)
					092LH(DW COMP RBB100A011)
	3100300531				123LH(DW COMP. RCB150A001)
2	310600900	COMP. BOLT	3	MB x L46.5	071LH(DW COMP RBB075A011)
					092LH(DW COMP RBB100A011)
					123LH(DW COMP. RCB150A001)
3	3102100800	FOOT	2	SECC T1.2	
4	3108134AE0	COMP. GROMMET	3	EPDM	071LH(DW COMP RBB075A011)
					092LH(DW COMP RBB100A011)
					123LH(DW COMP. RCB150A001)
5	3RC0020HE1	COMPRESSOR ASS'Y	1	RBB075A011	071LH
	3RC0020LE1			RBB100A011	092LH
	3RC0030HE0			RCB 150A001	123LH
6	3110046200	CONDENSER ASS'Y	1	L465xW208.5xH508	071LH(DW COMP RBB075A011)
	3110046300				092LH(DW COMP RBB100A011)
	3100037010				123LH(DW COMP. RCB150A001)
7	3100602200	BRACKET SERVICE	1	SECC T1.2	
8	3115401900	SERVICE VALVE ASS'Y	1	3/8	
9	3105400800	SERVICE VALVE	1	1/4	
10	3104410710	PIPE COND IN ASS'Y	1	C1220T	123LH
11	3104412810	PIPE COND OUT ASS'Y	1	C1220T	071LH(DW COMP RBB075A011)
					092LH(DW COMP RBB100A011)
					123LH(DW COMP. RCB150A001)
12	3104411411	PIPE OUTLET	1	C1220T	071LH(DW COMP RBB075A011)
					092LH(DW COMP RBB100A011)
					123LH(DW COMP. RCB150A001)
13	3110048300	PIPE FILTER ASS'Y	1	C1220T	071LH(DW COMP RBB075A011)
	3110048400				092LH(DW COMP RBB100A011)
	3110083100				123LH(DW COMP. RCB150A001)
14	3104400300	PIPE SENSOR	1	C1220T	
15	3110048000	PIPE REVERSING ASS'Y	1	C1220T	071LH(DW COMP RBB075A011)
	3110048100				092LH(DW COMP RBB100A011)
	3100038810				123LH(DW COMP. RCB150A001)
16	3105401010	REVERSING VALVE	1	CHV-0104	071LH/092LH
	3105401000			VH7-ATYPE	123LH
17	3102501100	GUIDE SUPPORT	1	SECC T1.2	
18	3102402600	GRILLE CONDENSER	1	P.E. 660x525.5xT3.5	
19	3100601903	BRACKET MOTOR	1	SBHG1 T1.2	

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
20	3108008900	MOTOR ODU	1	YDK-30-6B	071LH
	3118001100			A9525BD010	092LH
	3118001300			A9530CD010	123LH
21	3101801000	FAN PROPELLER	1	ABS+G.F20% (BLACK)	
22	7400208411	WASHER PLAIN	1	PW-2-8 MFZN	
23	7392800011	NUT LOCK	1	M8 x P1.25 MFZN	
24	3104201900	PANEL CONTROL	1	SBHG1 T0.8	
25	3108912301	TERMINAL BLOCK	1	SN-DBW-05P	
26	3109505610	CAPACITOR DUAL	1	1.8+25uF 400VAC	071LH(DW COMP RBB075A011)
	3109505710			1.8+30uF 400VAC	092LH(DW COMP RBB100A011)
	3109506600			3.5+35uF 400VAC	123LH(DW COMP. RCB150A001)
27	3101201100	CLAMP CAPACITOR	1	SBHG1 T1.0	
28	3101202000	CLAMP CORD	1	NYLON	
29	3110801500	CABINET FRONT	1	SECC T0.8	
30	3112402200	GRILLE DISCHAGE	1		
31	3103510700	LABEL BRAND	1	P.C.FILM T0.4	
32	3100801300	CABINET SIDE	1	SECC T0.8	
33	3104201800	PANEL TOP	1	SECC T0.8	
34	3102600300	HANDLE	1	A.E.S. T2.5 (WH104A)	
35	3102101000	FOOT CUSHION	4	NBR (HARDNESS 45X5T)	
36	7112401211	TAPPING SCREW	11	T1S TRS 4X12 MFZN	
37	7112401214	TAPPING SCREW+PVC WASHER	29	T1S TRS 4X12 MFZN	
38	7112401211	TAPPING SCREW	4	T1S TRS 4X12 MFZN	071LH/092LH
	7112402011			T1S TRS 4X20 MFZN	123LH
39	7111301611	TAPPING SCREW	2	T1S PAN 3X16 MFZN	
40	7112403011	TAPPING SCREW	3	T1S TRS 4X30 MFZN	
41	7S432X40A1	SPECIAL SCREW	1	TT3 TRS SE 4X8 MFZN	
42	7112401614	TAPPING SCREW+PVC WASHER	5	T1S TRS 4X16 MFZN	

◆DSB-182LH/182LH-R/DSA-183LH-R/DSB-183LH-R



◆ DSB-182LH/182LH-R/183LH-R/DSA-183LH-R Parts List (Outdoor Unit)

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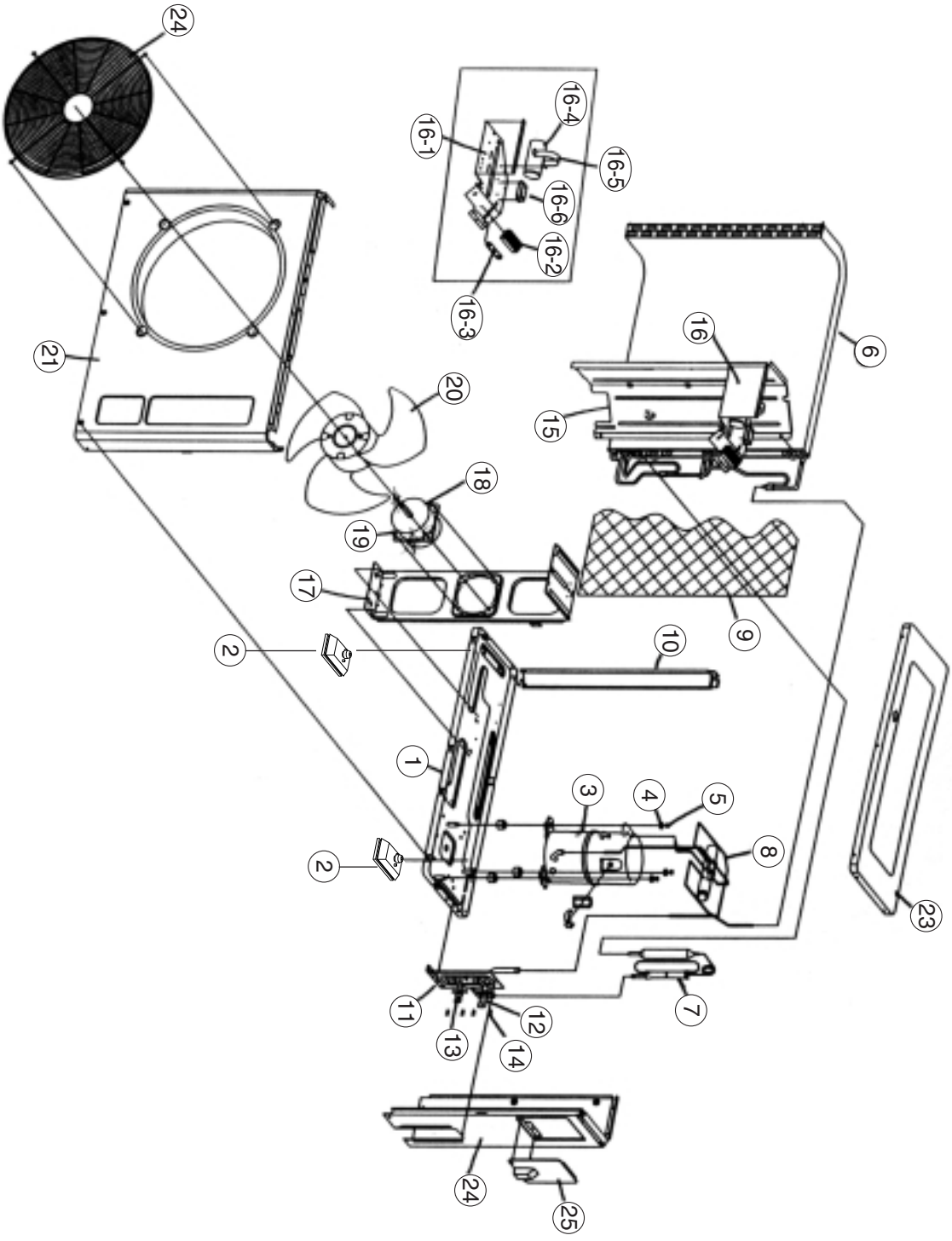
No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3102402100	GRILLE COND	1	PE	
2	3114200500	PANEL TOP	1	SECC T1.0	
3	3110800200	CABINET	1	SECC T1.0	
4	3101800100	FAN	1	ABS + G/F	
5	3102400710	GRILLE DISCHARGE	1	PP	
6	3110800300	CABINET	1	SECC T1.0	
7	3118100200	PAN BASE	1	SECC T1.2	DSB-182LH
	3118100220				DSB-182LH-R/183LH-R DSA-183LH-R
8	3105300100	SUPPORTER MOTOR	1	SGCC T1.0	
9	3114200600	PANEL CONTROL	1	SGCC T0.8	
10	3108009100	MOTOR ODU	1	220~240V/50Hz	DSB-182LH/LH-R/183LH-R
	3108000521			220V/60Hz	DSA-183LH-R
11	3110018800	CONDENSER ASS'Y	1		
12	7392800011	NUT HEX	1	M8xP1.25 MEZN	
13	3102600300	HANDLE	1	AE.S T2.5	
14	3114500800	PLATE PARTITION	1	SGCC T1.0	
15	3100610001	BRACKET SERVICE ASS'Y	1		
16	3102100201	FOOT	4	SECC T2.0	
17	3101301100	CLAMP CAPACITOR	1	SGCC T1.0	
18	3105400310	REVERSING VALVE	1	STF-0201	

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
19	3110010700	PIPE REVERSING ASS'Y	1		DSB-182LH
	3110010800				DSB-182LH-R/183LH-R DSA-183LH-R
20	3110008710	PIPE FILTER ASSY	1		DSB-182LH-R, DSA-183LH-R
	3110027500				DSB-182LH-R/183LH-R
21	3107140100	COMPRESSOR	1	SHW-33TC4-U	DSB-182LH
	3100068010			AWG5524EXC	DSB-182LH-R/183LH-R
	3100068110			AWG5519EXN	DSA-183LH-R
22	3105400200	SERVICE VALVE-LIQ	1	C3771, 1/4"	
23	3105400100	SERVICE VALVE-GAS	1	C3771, 1/2"	
24	5SC0202700	POWER RELAY	1	G7L-2A-TUB	
25	3108912310	TERMINAL BLOCK	1	SN-DBW-5P	
26	3102101000	FOOT CUSHION	4	NR	
27	3106002400	BOLT COMP	3	M8 x L70	DSB-182LH
	3106002700		4	M8 X L30	DSB-182LH-R/183LH-R DSA-183LH-R
28	3101500800	GROMMET COMP	3	HITACHI	DSB-182LH
			4	TECUMSEH	DSB-182LH-R/183LH-R DSA-183LH-R
29	3107101120	COMP WASHER	3	M8.4 x 22 x T1.6	DSB-182LH
			4		DSB-182LH-R/183LH-R DSA-183LH-R
30	3107101130	NUT COMP	3	M8 x P1.25 MEZN	DSB-182LH
			4		DSB-182LH-R/183LH-R DSA-183LH-R
31	7347602011	BOLT HEX	4		
32	3112500300	GUIDE SUPPORT	1	SECC T1.2	
33	3103510700	LABEL BRAND	1	PC 346 x 90 x T0.4	

◆ DSB-240LH-R/DSA-240LH-R



◆ DSB-240LH-R/DSA-240LH-R PART LIST (OUT DOOR UNIT)

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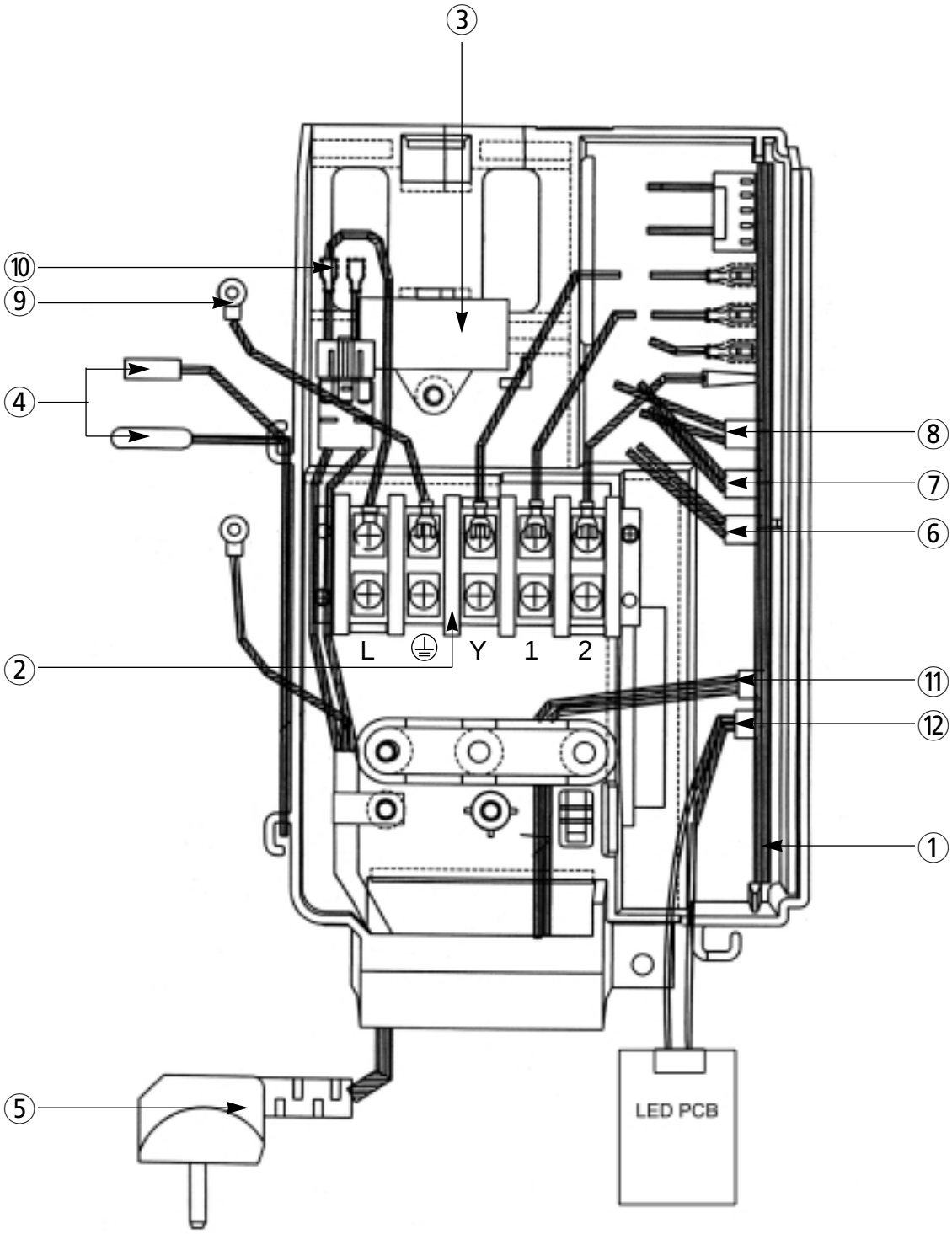
No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100041750	BASE PAN PAINT ASSY	1	PAINTING	
2	310P30281A	FOOT CUSHION	4	NBR (54*63.5)	
3	3100068201	COMPRESSOR ASSY	1	AWG5530EXC	DSB-240LH-R
	3100068300			AWG5524EXN	DSA-240LH-R
4	7400208411	WASHER PLAIN	3	ID8.4*OD22*T1.6	
5	7392801211	NUT LOCK	3	M8*1.25P	
6	3100078000	CONDENSER ASSY	1	AL+CU	
7	3100082900	PIPE CAPILLARY ASSY	1	C1220T H/P	
8	3100082800	PIPE REVERSING ASSY	1	C1220T-O	
9	3102402100	GRILLE COND	1	PE	
10	3100041100	GUIDE POST P/T ASSY	1	PAINTING	
11	3100041200	BRK SERVICE P/T AS	1	PAINTING	DSB-240LH-R
	3100041201				DSA-240LH-R
12	3105401800	SERVICE VALVE (G)	1	Ø15.88 (5/8")	
13	3105401200	SERVICE VALVE (L)	1	Ø9.52 (3/8")	
14	3106002300	BOLT HEX	4	M6*L20 MFZN	
15	3100031702	PLT PARTITION ASSY	1	SGCC-M-Z22	
16	3100088500	ASSY PANEL CONTROL	1	SGCC-M-Z22 T0.8 H/P	
16-1	3104201601	PANEL CONTROL	1	SGCC-M-Z22 T0.8	
16-2	3108912410	TERMINAL BOLCK	1	30A-3P	
	3108912330			SN-DBW-6P	
16-3	3101202600	CLAMP CORD	1	DA-4N	DSB-240LH-R
	3101202000			NYLON66, (VDE)	DSA-240LH-R
16-4	3109504830	CAPACITOR DUAL	1	5/45µF 400VAC	DSB-240LH-R
	3109504820			5/35µF 400VAC	DSA-240LH-R
16-5	3101203300	CLAMP CAPACITOR	1	SGCC Ø63 T0.8	
16-6	5SC0202700	POWER RELAY	1	G7L-2A-TUB, 220/240V 50/60H	
17	3105300400	SUPPORT MOTOR	1	SGCC-M-Z22 T1.6	
18	3108009900	MOTOR ODU	1	OSME986DERC 230/50	DSB-240LH-R
	9108005800				DSA-240LH-R
19	7348602011	BOLT HEX	4	WAS M6*L20 MFZN	
20	3101802000	FAN PROPELLER	1	ABS+G/F(20%)	
21	3100031400	CABINET FRONT P/T AS	1	PAINTING	
22	3100031500	CABINET SIDE P/T AS	1	PAINTING	
23	3100041500	PANEL TOP P/T ASSY	1	PAINTING	
24	3102102000	GRILLE DISCHARGE	1	(BE-002D)	
25	3100089200	SERVICE COVER ASSY	1	ASA	

5 CONTROL BOX ASSEMBLY

◆ **DSB-070LH/071LH/DSB-091LH/092LH**



◆ DSB-070LH/071LH/DSB-091LH/092LH

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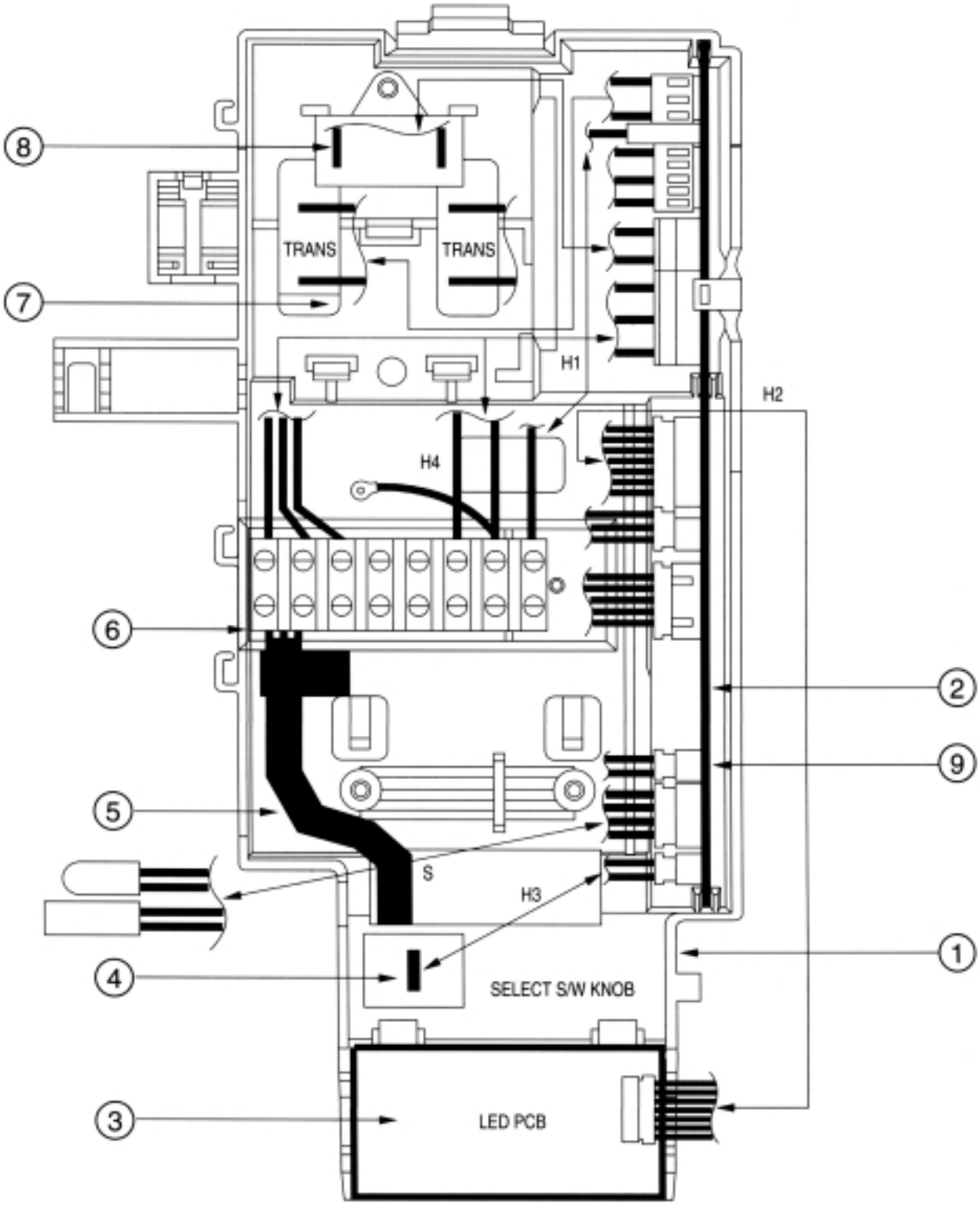
No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100054410	CONTROL PCB ASS'Y	1		
2	3108912301	TERMINAL BLOCK	1	SN-DBW-05P 300V 25A	
3	3106900300	CAPACITOR SH.M.B	1	1.0μF 400VAC	
4	3104896300	SENSOR ID ASS'Y	1	PTM-KD43C-D2	
5	3101300100	POWER CORD ASS'Y	1	16A 250V	
6	3102797610	HARNESS	1	I/D COMP	
7	3102797150	HARNESS	1	I/D 4WAY VALVE	
8	3102704400	HARNESS	1	O/D MOTOR	
9	3102797910	HARNESS	1	I/D EARTH	
10	3102704000	HARNESS	1	POWER	
11	3102702200	HARNESS	1	TH-3-1	
12	3102704500	HARNESS	1	LED PCB	

◆DSB-121LH/DSB-122LH



◆ DSB-090LH/DSB-121LH/DSB-122LH

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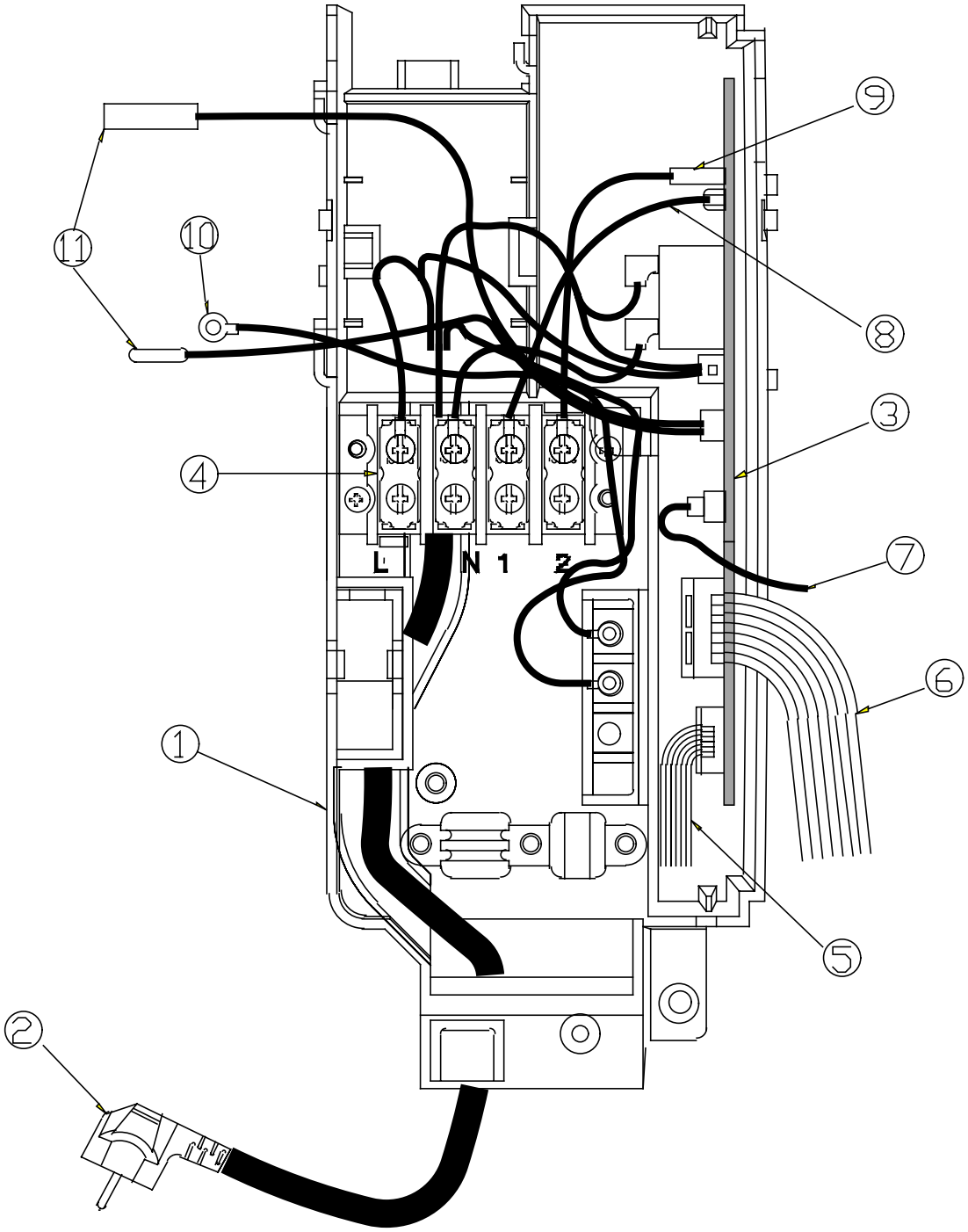
No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100503100	CONTROL BOX	1	P.P+G.F 20%	
2	3100054400	CONTROL PCB ASS'Y	1	FR-1	
3	3100054200	LED PCB ASS'Y	1	FR-1	
4	3103400300	KNOB RESET SWITCH	1	ABS	
5	3101395060	POWER CORD ASS'Y	1		BUYER
6	3108912301	TERMINAL BLOCK	1	SN-DBW-05P	
7	5EPV050100	TRANS FORMER	1	DWA220A-50/60HZ	
8	3106900300	CAPACITOR SH.M.B	1	1.0µF 400VAC	
H1	3102797610	HARNESS I/D COMP	1		
H2	3102797500	HARNESS LED PCB	1		
H3	3102797410	HARNESS MODE SELECT	1		
H4	3102797910	HARNESS I/D EARTH	1		
S	3104896300	SENSOR ID ASS'Y	1	PTM-KD-43C-D2	
9	3102702200	HARNESS O/D SENSOR	1	6M	

◆ **DSB-123LH**



◆ DSB-123LH

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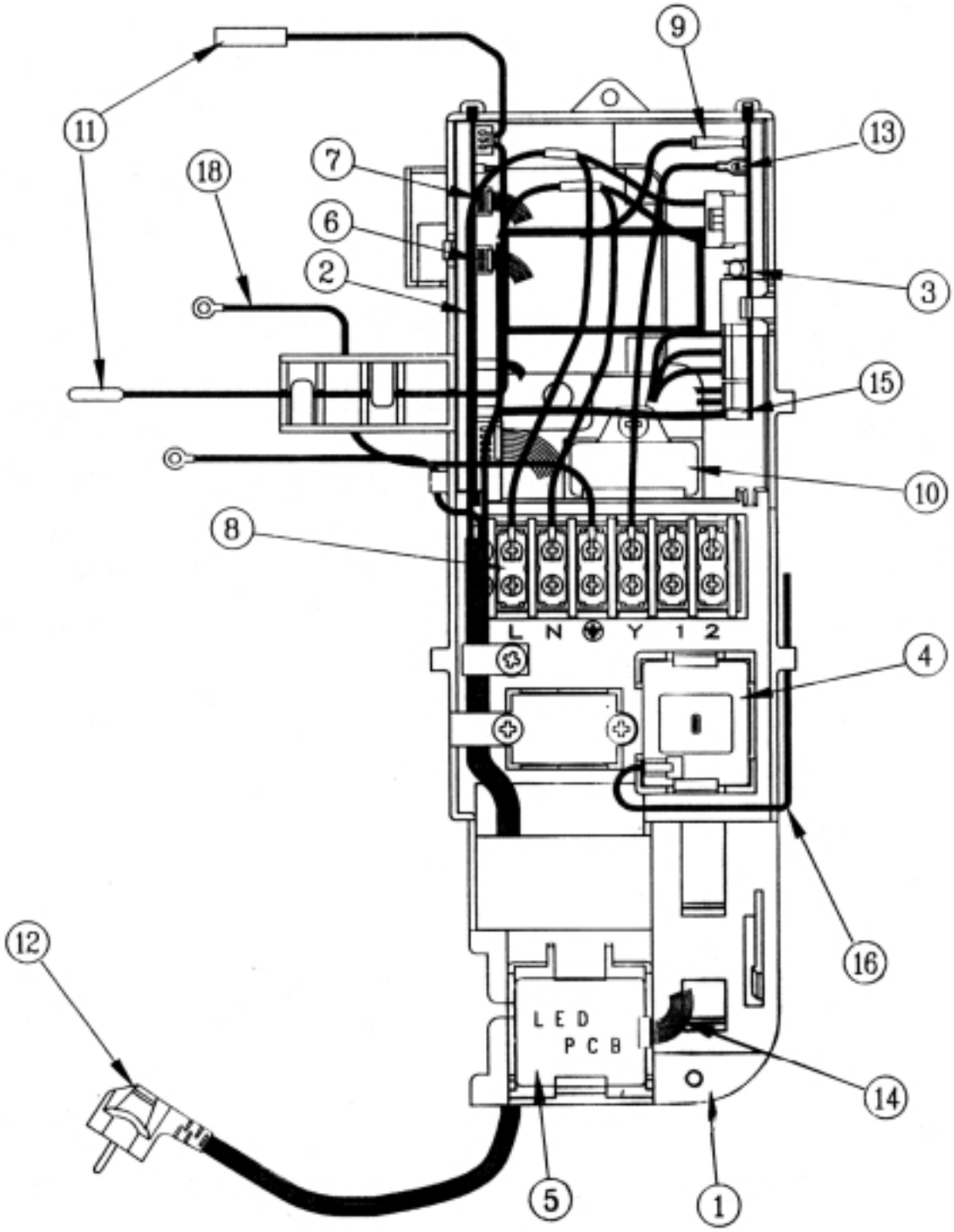
No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3110504000	CONTROL BOX	1	HIPS T2.0(BLACK)	
2	3111312110	POWER CORD	1	AC250V, 10/16A	
				H0.5V V-F x 1mm^2	
3	3114302090	CONTROL PCB ASS'Y	1		
4	3108914200	TERMINAL BLOCK	1	JXO-CH-4P	
5	3108003910	STEPPING MOTOR	1	MP24GA	
6	3112716100	HARNESS LED PCB	1	UL1007 8x26AWG	
7	3102702211	HARNESS TH3-1	1		
8	3112715900	HARNESS MOTOR SIGNAL	1		
9	3112716000	HARNESS 4W SIGNAL	1		
10	3112716250	HARNESS ID EARITH	1	UL1015 16AWG	
11	3104896300	SENSOR ID ASS'Y	1	PTM-KD-43C-D2	

◆ **DSB-182LH/182LH-R**



◆ DSB-182LH/182LH-R

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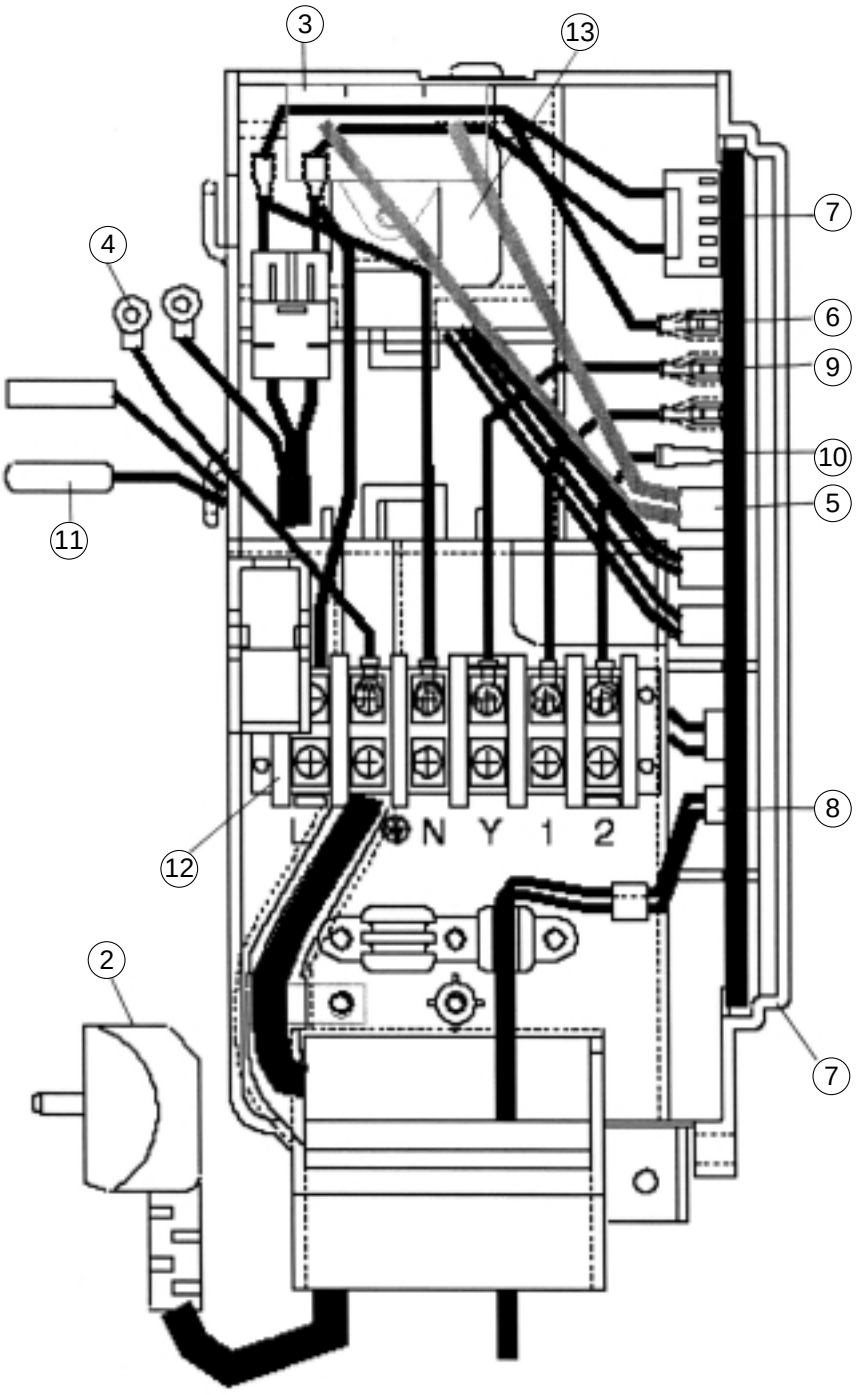
NO	PART CODE	PART NAME	Q'TY	SPEC RE	MARK
1	3100506900	CONTROL BOX	1	ABS	
2	3104300720	CONTROL PCB ASS'Y	1		
3	3104300212	POWER PCB ASS'Y	1		
4	3104300301	SWITCH PCB ASS'Y	1		
5	3104300401	LED PCB ASS'Y	1		
6	3108004310	MOTOR STEPPING	1	DC 12V	L=1300mm
7	3108004300	MOTOR STEPPING	2	DC 12V	L=400mm
8	3108912330	TERMINAL BLOCK	1	SN-DBW-6P	
9	5EPV633110	TRANSFORMER	1	DWA220V 50Hz	
10	3106900200	CAPACITOR I.D.M	1	SH.M.B 1.2μF/450V	
11	3104896000	SENSOR ID ASS'Y	1	PEM-KD43C-D1	
12	31013A24B1	POWER CORD ASSY	1	220V 50Hz	
13	3102704410	HARNESS COMP SIGNAL	1	UL1015 #18	
14	3102704510	HARNESS LED PCB	1	UL1007 #24	
15	3102704900	HARNESS CONNECTING	1	UL1007 #24	
16	3102707000	HARNESS SWITCH PCB	1	VSF 12/0.16	
17	3102797910	HARNESS EARTH	1	I/D EARTH	

◆DSB-183LH-R/DSA-183LH-R/DSB-40LH-R/DSA-240LH-R



◆ DSB-183LH-R/DSA-183LH-R/DSB-240LH-R/DSA-240LH-R

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No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3104300770	CONTROL PCB ASS'Y	1		DSA-240A-R/AH-R DSB-240AH-R
2	3101200400	CLAMP POWER CORD	1	DA-5N	DSB-240PH-R
3	3106902400	CAPACITOR SH.M.B	1	2.0MF 400V	
4	3102797910	HARNESS EARTH	1	GREEN/YELLOW L170mm	
5	3102714400	HARNESS CAPACITOR	1		
6	3102704410	HARNESS COMP SIGNAL	1	UL1015#18	
7	3102704010	HARNESS POWER	1	UL1015#16	
8	3102702200	HARNESS TH3	1	TH-3-1	
9	3102704430	HARNESS OD SIGNAL	1	UL1015#18	
10	3102704420	HARNESS REVERSING V/	1	UL1015#18	
11	3104896300	SENSOR ID ASSY	1	NTM-KD43C-D2, L330	
12	3108912320	TERMINAL BLOCK	1	SB-DBW-6P	
13	5EPV050120	TRANSFORMER	1	DWA-220B	

DAEWOO

DEAWOO ELECTRONICS CO., LTD
686, AHYEON-DONG MAPOGU,
SEOUL, KOREA.
C.P.O. BOX 8003 SEOUL KOREA
TELEX: DWELEC K28177-8
CABLE:"DAEWOOELEC"
FAX: +82-2-364-5588
TEL: +82-2-360-7114, 8114
http://www.dwe.daewoo.co.kr

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